CASE NO.

7627

APPIICATION, Transcripts,

Small Exhibits,

ETC.

## STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

TONEY ANAYA GOVERNOR October 20, 1986

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 97501 (505) 827-5800

Anadarko Petroleum Corporation P.O. Box 2497 Midland, Texas 79702

Attention: Tommy W. Thompson

Re: Injection Pressure Increase Teas Yates Unit Waterflood Lea County, New Mexico

Dear Sir:

Reference is made to your request of October 6, 1986, to increase the surface injection pressure on the Teas Yates Unit Well Nos. 1-2, 2-1, 5-3, 8-4, 10-3, and 13-2. This request is based on a step rate test conducted on the No. 1-2 well on September 11, 1986. The results of the test have been reviewed by my staff and we feel an increase in injection pressure on these wells is justified at this time.

You are therefore authorized to increase your surface injection pressure to 1567 PSIG on the following wells.

Well & Location

Teas Yates Unit No. 1-2 Unit E, Section 18, T-20 South, R-34 East

Teas Yates Unit No. 2-1 Unit F, Section 13, T-20 South, R-33 East

Teas Yates Unit No. 5-3 Unit F, Section 14 T-20 South, R-33 East

Teas Yates Unit No. 8-4 Unit L, Section 13, T-20 South, R-33 East

Teas Yates Unit No. 10-3 Unit G, Section 14, T-20 South, R-33 East Teas Yates Unit No. 13-2 Unit M, Section 11, T-20 South, R-33 East

The Division Director may rescind this injection pressure increase if it becomes apparent that the injected water is not being confined to the injection zone or it is endangering any fresh water aquifers.

Sincerely, аны 19<u>1</u> ( anc L. Stamets Director

xc: OCD-Hobbs / Case File-7677 File WFX-492 D. Mcdonald D. Catanach ANADARKO PETROLEUM CORPORATION

**A**nadarko<sup>♯</sup> October 6, 1986

CHLCUMSENGIALL SELESSEE (), 22 SXIIICE

State of New Mexico Department of Energy and Minerals Oil Conservation Division P. O. Box 2088 Santa Fe, NM 87501

Attn: R. L. Staments Director

> Re: Injection Pressure Increase Teas Yates Unit Well No's. 1-2, 2-1, 5-3, 8-4, 10-3 & 13-2 Lea County, NM

Dear Sir:

Anadarko Petroleum Corporation, as operator of the Teas Yates Unit Waterflood in Lea County, New Mexico, requests administrative approval to increase the surface injection pressure limitation on all unit wells subject to a pressure limitation from 1300 psig to 1567 psig. The current surface pressure limitation of 1300 psig for well No's. 2-1, 5-3, 8-4 and 13-2 is as authorized by letter amendment to Case No. 7677 (Order No. R-7084) effective June 2, 1983. The current pressure limitations for unit well No's. 1-2 and 10-3 are 1470 psig and 1475 psig respectively, both by letter amendment effective April 24, 1986.

Enclosed please find two copies of a step rate test conducted September 11, 1986 on the Teas Yates Unit No. 1-2. The surface pressure readings indicate a fracture pressure of 1617 psig at a rate of 313 BWIPD. The request for a surface injection pressure limitation of 1567 psig is Mr. Staments October 6, 1986 Page Two

based on the 1617 psig fracture pressure less a safety factor of approximately 50 psig. Further testing will be periodically conducted on the Teas Yates Unit in order to substantiate future increased pressure requests as such increases become necessary. Additional test data will be supplied to the Commission along with each future request.

Sincerely,

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- w Thompso-

Tommy W. Thompson Senior Production Engineer

TWT/jma Enclosures

cc John English Well File

#### STEP RATE TEST TEAS YATES UNIT #1-2 SEPTEMBER 11, 1986

TIME	SURFACE I	NJECTION (PSIG)	PRESSURE		TION RATH BWPD)	E
9:10		1340			56	
9:15						
		1360			56	
9:20		1370			54	
9:25		1380			52	
9:30		1385			52	
9:35		1395			51	
lst Setting Average Pres	sure =	1372		Rate =	53.5	
9:35		1410			111	
9:40		1415		-	103	
9:45		1420			99	÷
9:50		1427			96	
9:55		1436			92	
10:00		1440			93	
					23	
2nd Setting Average Pres	sure =	1425		Rate =	99.0	
10:00		1450			154	
10:05		1460			142	
10:10		1470			140	
10:15		1480	·		141	
10:20	•	1485			137	
10:25		1495			131	
10.25		1475		S. 2.	1.51	
3rd Setting Average Pres	sure =	1473		Rate =	140.8	
10:25		1505	-		211	
10:30		1515			206	
10:35		1520			197	
10:40		1525			199	
10:45		1530			191	
10:50		1540			197	
		1010			101	
4th Setting Average Pres	sure =	1523		Rate =	200.2	
10:50		1545			261	
10:55		1555			247	
11:00		1560			257	
11:05	16 - Y -	1570			246	
11:10		1570			248	
11:15		1580	×		252	
· 27 [1] [[[] [[] [[] [[] [[] [[] [[] [[] [[			and the second			
5th Setting Average Pres	sure =	1563		Rate =	256.3	:
		·				

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TIME	SURFACE INJECTION (PSIG)	PRESSURE		ION RATE WPD)
				303
11:15	1585			
11:20	1590			297
11:25	1590			298
11:30	1595			292
11:35	1600			299
11:40	1600			296
6th Setting Average Pressur	ce = 1593		Rate =	297.5
11:40	1610			372
11:45	1615			385
11:50	1620			385
11:55	1630			363
12:00	1635			356
12:05	1635			346
7th Setting Average Pressur	ce = 1624		Rate =	367.8
12:05	1645			502
12:10	1650			509
12:15	1660			510
				497
12:20	1660			
12:25	1660			501
12:30	1660			497
8th Setting Average Pressur	ce = 1656	an a	Rate =	502.7
12:30	1665			620
12:35	1665			611
12:40	1670			627
12:45	1670			601
12:50	1675			611
12:55	1680			620
9th Setting Average Pressur			Rate =	615.0
			s	
12:55	1685			731
1:00	1685			711
1:05	1685	- 		695
1:10	1685	а. -		705
1:15	1690			711
1:20	1690			701
10th Setting Average Pressu	ire = 1687		Rate =	709.0
1:20	1700			826
1:25	1705			816
1:30	1710			820
1:35	1710	1 <b>1</b> 1		832
	1710			801
1:40		<b>5</b> .		
1:45	1715			796
11th Setting Average Pressu		an a	Rate =	815.2



#### STEP RATE TEST TEAS YATES UNIT #1-2 SEPTEMBER 11, 1986

TIME	SURFACE	INJECTION (PSIG)	N PRESSURE			TION RATE BWPD)
9:10		1340				56
9:15		1360				56
9:20		1370	1 at	$ w_{ij}  = -\frac{1}{2} \left( \frac{1}{2} - \frac{1}{2} \right) \left( \frac{1}{$		54
		1380				
9:25						52
9:30		1385				52
9:35		1395				51
lst Setting Average Pressu	re =	1372	на на селото на селот На селото на		Rate =	53.5
9:35		1410				111
9:40		1415		п.		103
9:45		1420				99
9:50		1427				96
9:55		1436				92
10:00		1440			4 <sup>16</sup>	93
10:00						
2nd Setting Average Pressu	re =	1425			Rate =	99.0
10:00		1450				154
10:05		1460				142
10:10		1470				140
10:15		1480			<i></i>	141
10:20	•2	1485			ang gina ang sa	137
		1495				131
10:25		1495				131
3rd Setting Average Pressu	re =	1473			Rate =	140.8
10:25		1505				211
10:30	· ·	1515				206
10:35		1520				197
10:40		1525				199
10:45		1530				191
10:50	-1	1540				197
10:50		1340				137
4th Setting Average Pressu	re =	1523	н 1. ц. 1. т.		Rate =	200.2
10:50		1545				261
10:55		1555			ε.	247
11:00		1560				257
11:05		1570				246
11:10		1570				248
11:15	۰,	1580				252
*****					1 A.	
5th Setting Average Pressu	.re =	1563			Rate =	256.3

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SURFACE INJECTION PRESSURE         INJECTION RAT (PSIG)         INJECTION RAT (BWPD)           11:15         1585         303           11:20         1590         297           11:25         1590         298           11:30         1595         292           11:40         1600         296           6th Setting Average Pressure =         1593         Rate =         297.5           11:40         1610         372         385           11:45         1615         385         363           12:00         1635         366         363           12:00         1635         366         363           12:00         1635         366         366           12:05         1630         502         366           12:05         1650         502         366           12:00         1650         502         366           12:15         1660         497         302           12:20         1660         497         302           12:23         1660         601         301           12:30         1665         620         621           12:30         1665         611 <th></th> <th></th> <th></th> <th></th> <th></th>					
11:15         1585         303           11:20         1590         297           11:25         1590         292           11:30         1595         292           11:30         1595         292           11:40         1600         296           6th Setting Average Pressure =         1593         Rate =         297.5           11:40         1610         372         385           11:45         1615         385         363           11:45         1620         385         363           11:55         1630         363         363           12:00         1635         356         356           12:00         1635         356         356           12:10         1660         502         502           12:10         1660         497         12:25         1660         497           12:20         1660         497         12:25         1660         497           12:30         1665         620         12:12         12:12         12:12           12:40         1670         621         12:12         12:12         12:15           11:20         16			3		
11:20       1590       297         11:25       1590       298         11:30       1595       292         11:35       1600       296         6th Setting Average Pressure =       1593       Rate =       297.5         11:40       1610       372       385         11:50       1615       385       385         11:50       1620       385       363         12:00       1635       363       356         12:05       1635       366       366         12:05       1635       366       366         12:10       1645       502       385         12:10       1645       509       316         12:20       1660       497       311         12:21       1660       497       301         12:22       1660       601       497         12:230       1665       611       622.7         12:30       1665       620       501         12:30       1665       621       627         12:40       1670       627       621         12:45       1675       620       711		وبالمتلك سيمشيك ومساحب بيريني فكمتسد المخاصة ورحجوا سني كرمجم بواطاعه مردأت المتعاد الأ	-		
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12:00       1635       356         12:05       1635       346         7th Setting Average Pressure =       1624       Rate =       367.8         12:05       1645       502         12:10       1650       501         12:12       1660       497         12:13       1660       497         12:25       1660       501         12:30       1660       620         12:31       1665       620         12:32       1665       611         12:40       1670       627         12:45       1670       601         12:55       1680       620         9th Setting Average Pressure =       1671       Rate =       615.0         12:55       1685       731       611         12:55       1685       731       711         100       1685       731       711         1:00       1685       731       711         1:20       1690       701       701         1:20       1700       826       820         1:35       1710       832       820         1:40       1710       832					
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12:10       1650       509         12:15       1660       510         12:20       1660       497         12:25       1660       501         12:30       1660       497         8th Setting Average Pressure =       1655       620         12:30       1665       620         12:30       1665       621         12:30       1665       621         12:35       1665       611         12:40       1670       601         12:50       1675       611         12:55       1680       620         9th Setting Average Pressure =       1671       Rate =         12:55       1685       731         1:00       1685       731         1:00       1685       705         1:10       1685       705         1:12       1690       701         1:145       1690       701         1:20       1700       826         1:25       1705       816         1:35       1710       820         1:45       1710       821	7th Setting Average Pressure =	1624	۰. ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰	Rate =	367.8
12:15       1660       510         12:20       1660       497         12:25       1660       501         12:30       1660       597         8th Setting Average Pressure =       1656       Rate =       502.7         12:30       1665       620         12:30       1665       621         12:30       1665       621         12:30       1665       621         12:35       1665       611         12:40       1670       627         12:45       1670       611         12:55       1680       620         9th Setting Average Pressure =       1671       Rate =       615.0         12:55       1685       731       711         1:00       1685       731       711         1:00       1685       705       711         1:10       1685       705       711         1:20       1690       711       701         10th Setting Average Pressure =       1687       Rate =       709.0         1:20       1705       816         1:30       1700       826         1:35       1710					
12:20       1660       497         12:25       1660       497         12:30       1660       497         8th Setting Average Pressure =       1656       Rate = 502.7         12:30       1665       620         12:30       1665       621         12:30       1665       620         12:30       1665       620         12:30       1665       621         12:30       1665       621         12:30       1665       620         12:40       1670       627         12:40       1670       620         12:50       1675       611         12:55       1680       620         9th Setting Average Pressure =       1671       Rate = 615.0         12:55       1685       731         1:00       1685       731         1:01       1685       705         1:10       1685       705         1:11       1:20       700       701         10th Setting Average Pressure =       1687       Rate = 709.0         1:20       1700       826       820         1:35       1710       832					
12:25       1660       501         12:30       1660       497         8th Setting Average Pressure =       1655       Rate =       502.7         12:30       1665       611         12:30       1665       611         12:30       1665       611         12:30       1665       611         12:40       1670       627         12:45       1670       601         12:50       1675       611         12:55       1680       620         9th Setting Average Pressure =       1671       Rate =       615.0         12:55       1685       731       711         1:00       1685       705       615         1:00       1685       705       711         1:00       1685       705       711         1:20       1690       701       701         10th Setting Average Pressure =       1687       Rate =       709.0         1:20       1700       826       816         1:30       1710       820       820         1:35       1710       820       820         1:45       1710       801       816<			1.		
12:30       1660       497         8th Setting Average Pressure =       1656       Rate =       502.7         12:30       1665       620         12:31       1665       611         12:42       1670       627         12:45       1670       620         12:50       1675       611         12:55       1680       620         9th Setting Average Pressure =       1671       Rate =       615.0         12:55       1685       731         1:00       1685       731         1:00       1685       705         1:10       1685       705         1:11       1:20       1690       701         10th Setting Average Pressure =       1687       Rate =       709.0         1:20       1700       826       816         1:30       1710       820       812         1:40       1710       832       801         1:45       1715       796       801					
8th Setting Average Pressure =       1656       Rate =       502.7         12:30       1665       620         12:35       1665       611         12:40       1670       627         12:45       1670       621         12:50       1675       621         12:55       1680       620         9th Setting Average Pressure =       1671       Rate =       615.0         12:55       1685       731         1:00       1685       731         1:00       1685       705         1:10       1685       705         1:20       1690       701         10th Setting Average Pressure =       1687       Rate =         1:20       1700       826         1:30       1710       820         1:35       1710       820         1:40       1710       832         1:45       1715       796	12:25				
12:30166562012:35166561112:40167062712:45167060112:50167561112:5516806209th Setting Average Pressure =1671Rate =12:5516857311:0016857111:0016856951:1016856951:1116907011:20169070110th Setting Average Pressure =1687Rate =1:2017008261:3017108161:3517108321:4017108321:451715796	12:30	1660			497
12:35       1665       611         12:40       1670       627         12:45       1670       601         12:50       1675       611         12:55       1680       620         9th Setting Average Pressure =       1671       Rate =       615.0         12:55       1685       731         1:00       1685       731         1:00       1685       695         1:10       1685       695         1:10       1685       705         1:11       1:20       1690       701         1:20       1690       701       11         1:20       1700       826       1701         1:20       1700       826       170.0       826         1:30       1710       820       1710       832         1:40       1710       832       1140       801         1:45       1715       796       174	8th Setting Average Pressure =	1656		Rate =	502.7
12:40       1670       627         12:45       1670       601         12:50       1675       611         12:55       1680       620         9th Setting Average Pressure =       1671       Rate =       615.0         12:55       1685       731         1:00       1685       731         1:00       1685       695         1:10       1685       695         1:10       1685       705         1:20       1690       701         10th Setting Average Pressure =       1687       Rate =       709.0         1:20       1700       826         1:30       1710       832         1:40       1710       832         1:45       1715       796				·	
12:45167060112:50167561112:5516806209th Setting Average Pressure =1671Rate =12:5516857311:0016857111:0516856951:1016857051:1516907011:20169070110th Setting Average Pressure =1687Rate =1:2017008261:3017108201:4017108321:401715796					
12:50       1675       611         12:55       1680       620         9th Setting Average Pressure =       1671       Rate =       615.0         12:55       1685       731         1:00       1685       731         1:05       1685       711         1:05       1685       695         1:10       1685       705         1:11       1690       701         1:20       1690       701         10th Setting Average Pressure =       1687       Rate =       709.0         1:20       1700       826         1:30       1710       826         1:35       1710       832         1:40       1710       831         1:45       1715       796					
12:55       1680       620         9th Setting Average Pressure =       1671       Rate =       615.0         12:55       1685       731         1:00       1685       731         1:05       1685       711         1:05       1685       705         1:10       1685       705         1:120       1690       701         10th Setting Average Pressure =       1687       Rate =       709.0         1:20       1700       826         1:30       1710       820         1:35       1710       821         1:40       1710       832         1:45       1715       796	12:45				
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12:55       1685       731         1:00       1685       711         1:05       1685       695         1:10       1685       705         1:15       1690       711         1:20       1690       701         10th Setting Average Pressure =       1687       Rate =       709.0         1:20       1700       826         1:25       1705       816         1:30       1710       820         1:35       1710       820         1:45       1715       796	12:55	1680			620
1:00       1685       711         1:05       1685       695         1:10       1685       705         1:15       1690       711         1:20       1690       701         10th Setting Average Pressure =       1687       Rate =       709.0         1:20       1700       826         1:25       1705       816         1:30       1710       820         1:35       1710       832         1:40       1710       801         1:45       1715       796	9th Setting Average Pressure =	1671		Rate =	615.0
1:05       1685       695         1:10       1685       705         1:15       1690       711         1:20       1690       701         10th Setting Average Pressure =       1687       Rate = 709.0         1:20       1700       826         1:25       1705       816         1:30       1710       820         1:35       1710       832         1:40       1710       801         1:45       1715       796					
1:10       1685       705         1:15       1690       711         1:20       1690       701         10th Setting Average Pressure =       1687       Rate = 709.0         1:20       1700       826         1:25       1705       816         1:30       1710       820         1:35       1710       832         1:40       1715       796					
1:15       1690       711         1:20       1690       701         10th Setting Average Pressure =       1687       Rate =       709.0         1:20       1700       826         1:25       1705       816         1:30       1710       820         1:35       1710       820         1:40       1710       832         1:45       1715       796					
1:20       1690       701         10th Setting Average Pressure =       1687       Rate = 709.0         1:20       1700       826         1:25       1705       816         1:30       1710       820         1:35       1710       832         1:40       1710       801         1:45       1715       796					
10th Setting Average Pressure =       1687       Rate =       709.0         1:20       1700       826         1:25       1705       816         1:30       1710       820         1:35       1710       832         1:40       1710       801         1:45       1715       796					
1:20     1700     826       1:25     1705     816       1:30     1710     820       1:35     1710     832       1:40     1710     801       1:45     1715     796	1:20	1690	х. Х		701
1:2517058161:3017108201:3517108321:4017108011:451715796	10th Setting Average Pressure =	1687		Rate =	709.0
1:3017108201:3517108321:4017108011:451715796					
1:3517108321:4017108011:451715796					
1:40 1:45 1710 1715 796					
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1:45 1715 796	1:40				
		1715			796
11th Setting Average Pressure = 1708 Rate = 815.2	11th Setting Average Pressure =	1708		Rate =	815.2

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STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

April 24, 1986

TONEY ANAYA



POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FEINEW MEXICO 87501 (505) 827-5800

Anadarko Petroleum Corporation P. O. Box 2497 Midland, Texas 79702

Attention: Tommy W. Thompson

Re: Injection Pressure Increase Teas Yates Unit No. 1-2 Section 18, T-20S, R34E, Lea County, New Mexico

Dear Sir:

Reference is made to your request of April 18, 1986 to increase the surface injection pressure on your Teas Unit No. 1-2. This request is based on a step rate test conducted on the well on April 10, 1986. The results of the test have been reviewed by my staff and we feel an increase in injection pressure on this well is justified at this time.

You are therefore authorized to increase your surface injection pressure on the following well:

Well & LocationMaximum Injection<br/>Surface PressureTeas Yates Unit No. 1-2<br/>Section 18, T-20S, R-34E<br/>Lea County, New Mexico1470 PSIG

The Division Director may rescind this injection pressure increase if it becomes apparent that the injected water is not being confined to the injection zone or it is endangering any fresh water aquifers.

Sincerely, am N R. L. STAMETS

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Director

RLS/DRC/et

cc: Oil Conservation Division - Hobbs
Case File 7677
Donna McDonald
D. Catanach

DATE: 4-21-56

COMPANY: Airadaito Detreleum Corporation ADDRESS: P.C. Box 2477 CITY, STATE, ZIP: Michard, Texas 79703 ATTENTION: Tommy (1). Thompson

Injection Pressure Increase
Teas yales Whit No. 1-2
Section 18 T-205 R-34E
Lea County, New Mexico

Dear Sir:

Reference is made to your request of April 18 1986 to increase the surface injection pressure on your <u>Fastlateo Unit</u> No. 12 This request is based on a step rate test conducted on the well on

April 10 , 1986. The results of the test have been reviewed by my staff and we feel an increase in injection pressure on this well is justified at this time.

You are therefore authorized to increase your surface injection pressure on the following well(s).

Well & Location

Teas Gates Unit No. 1-2

よね PSIG

Maximum Injection Surface Pressure

Section 18, 7 -205, R-34E,

Les Counte. Mars Mexico

The Division Director may rescind this injection pressure increase if it becomes apparent that the injected water is not being confined to the injection zone or it is endangering any fresh water aquifers.

CC: OCD - Hobbo Case File - 7677 Dance elcomated

Sincerely,

R.L. Stamets Director

ANADARKO PETROLEUM CORPORATION 1300 INDEPENDENCE PLAZA . P.O. BOX 2497 . MIDLAND, TEXAS 79702 . (915) 682-1666





April 18, 1986

State of New Mexico Department of Energy and Minerals Oil Conservation Division P.O. Box 2088 Santa Fe, New Mexico 87501

Attn: Gilbert Quintana **UIC Director** 

> Re: Injection Pressure Increase Teas Yates Unit No. 1-2 Unit Letter E, Sec.18-F2OS-R34E Lea County, New Mexico

Dear Sir:

Anadarko Petroleum Corporation, as operator of the Teas Yates Unit waterflood in Lea County, New Mexico, requests administrative approval to increase the surface injection pressure limitation on unit well Tract 1 No. 2 from 1300 psig to 1470 psig. The current surface pressure limitation of 1300 psig is as authorized by letter amendment to Order No. R-7084 effective June 2, 1983.

Enclosed please find two copies of a step rate test conducted April 10, 1986 on the subject well. The surface pressure readings indicate a fracture pressure of 1520 psig at a rate of 230 BWIPD. The request for a surface injection pressure limitation of 1470 psig is based on the 1520 psig fracture pressure less a safety factor of approximately 50 psig. Further testing will be periodically conducted on this wellbore in order to substantiate furture increased pressure requests as such increases become necessary. Additional test data will be supplied to the Commission along with each future request.

Lever ant to 1514 per

TWT:gks Enclosures

cc: John English Well File

Sincerely,

Tommy W. Thompson Senior Production Engineer

## STEP RATE TEST TEAS YATES UNIT #1-2 APRIL 10, 1986

		•	
	TIME	INJECTION PRESSURE (PSIG)	INJECTION RATE (BWPD)
	9:55	1285	62
	10:00	1310	59
-	10:05	1325	63
	10:10	1340	60
	10:15	1350	61
	10:20	1350	60
	lst Setting Average Pressure =	1326.7	Rate = 60.8
	10:20	1365	115
	10:25	1370	102
	10:30	1385	97
	10:35	1395	105
	10:40	1400	101
	10:45	1400	99
	2nd Setting Average Pressure =	1385.8	Rate = 103.2
	10:45	1420	152
	10:50	1420	159
	10:55	1435	162
,	11:00	1445	151
	11:05	1445	148
	11:10	1460	146
	3rd Setting Average Pressure =	1437.5	Rate = 153.0
	11:10	1470	209
	11:15	1480	210
	11:20	1485	206
	11:25	1495	201
	11:30	1500	192
	11:35	1500	189
	4th Setting Average Pressure =	1488.3	Rate = 201.2

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# STEP RATE TEST TEAS YATES UNIT #1-2 CONT'D

TIME	E INJECTION PRES (PSIG)	SURE	INJECTION RATE (BWPD)
11:35	1510		300
11:40	1530		304
11:45	1540		299
11:50	1545		301
11:55	1550		295
12:00	1560		289
5th Setting Average Pressure =	1539.2		Rate = 298.0
12:00	1565		415
12:05	1580		398
12:10	1580		391
12:15	1585		403
12:20	1595		391
12:25	1600		400
6th Setting Average Pressure =	1584.2		Rate = 399.6
12:25	1600		509
12:30	1600		505
12:35	1610		491
12:40	1620		496
12:45	1620		489
12:50	1620		492
7th Setting Average Pressure =	1611.7		Rate = 497.0



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STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT **DIL CONSERVATION DIVISION** 

April 24, 1986

TONEY ANAYA GOVERNOR



POST OFFICE BOX 2098 STATE LAND OFFICE BUILDING SANTA FE NEW MEXICO 87501 1505: 827-5800

Anadarko Petroleum Corporation P. C. Box 2497 Midland, Texas 79702

Attn: Tommy W. Thompson

Re: Injection Pressure Increase Teas Yates Unit No. 10-3 Section 14, T-20S, R-33E

Dear Sir:

Reference is made to your request of April 18, 1986 to increase the surface injection pressure on your Teas Yates Unit No. 10-3. This request is based on a step rate test conducted on the well on March 5, 1986. The results of the test have been reviewed by my staff and we feel an increase in injection pressure on this well is justified at this time.

You are therefore authorized to increase your surface injection pressure on the following well:

Well & Location	Maximum Injection Surface Pressure
Teas Yates Unit No. 10-3 Section 14, T-20S, R33E Lea County, New Mexico	1475PSIG

The Division Director may rescind this injection pressure increase if it becomes apparent that the injected water is not being confined to the injection zone or it is endangering any fresh water aquifers.

Sincerely,  $z \ll$ тs R. ST L. Director

RLS/DRC/et

s Sartij

cc: Oil Conservation Division - Hobbs
Donna McDonald
D. Catanach
Case File -7677

DATE: 4-21-86

COMPANY: Anadarko Peladum Corporation ADDRESS: P.O. Box 02497 CITY, STATE, ZIP: Milland Texas, 79702 ATTENTION: Tommy LU. Thompson

Pe: Injection Pressure Increase

Teas Gatestonic No. 10.3 Section 14, T-205, R-335 Lea County, New Mexico

Dear Sir:

Reference is made to your request of April 18, 1986 to increase the surface injection pressure on your <u>Teas Gato Unit 16.10-3</u>

This request is based on a step rate test conducted on the well on Mach 5, 1986. The results of the test have been reviewed by my staff and we feel an increase in injection pressure on this well is justified at this time.

You are therefore authorized to increase your surface injection pressure on the following well(s).

Well & Location

Maximum Injection Surface Pressure

Teas Gates Unit No. 10-3

1475 P31G

Section 14, T-205, R-33E

Lea County Nour crico

The Division Director may rescind this injection pressure increase if it becomes apparent that the injected water is not being confined to the injection zone or it is endangering any fresh water aquifers.

CC: OCD-Hobbo Domra McDonekel D. Catanach 100 File - 7677

Sincerely,

R.L. Stamets Director ANADARKO PETROLEUN CORPORATION 1300 INDEPENDENCE PLAZA . P.O. BOX 2497 . MIDLAND, TEXAS 79702 . (915) 682-1660 APR BOLIERS



April 18, 1986

State of New Mexico Department of Energy and Minerals Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

Attn: Gilbert Quintana **VIC Director** 

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SAULT

Injection Pressure Increase Re: Teas Yates Unit No. 10-3 Unit Letter G, Sec. 14, T2OS-R33E Lea County, New Mexico

Dear Sir:

Anadarko Petroleum Corporation, as operator of the Teas Yates Unit waterflood in Lea County, New Mexico, requests administrative approval to increase the surface injection pressure limitation on unit well Tract 10 No. 3 from 1300 psig to 1475 psig. The current surface pressure limitation of 1300 psig is as authorized by letter amendment to Order No. R-7084 effective June 2, 1983.

Enclosed please find two copies of a step rate test conducted March 5, 1986 on the subject well. The surface pressure readings indicate a fracture pressure of 1525 psig at a rate of 275 BWIPD. The request for a surface injection pressure limitation of 1475 psig is based on the 1525 psig fracture pressure less a safety factor of approximately 50 psig. Further testing will be periodically conducted on this wellbore in order to substantiate future increased pressure requests as such increases become necessary. Additional test data will be submitted to the Commission along with each future request.

Kincon Regracour Lincon te 1510 por compount te 1510 por

Sincerely,

Tommy W. Thompson Senior Production Engineer

TWT:gks

Enc1	osures	3
če:	John Well	English File

### STEP RATE TEST TEAS YATES UNIT #10-3 MARCH 5, 1986

TIME	SURFACE INJECTION PRESSURE (PSIG)		INJECTION RATE (BWPD)
9:50	1460		58
9:55	1460		49
10:00	1460	1 <del></del> 12	49
10:05	1460		46
10:10	1460		50
lst Setting Average Press	sure = 1460		Rate = $50.4$
10:10	1470		98
10:15	1470		95
10:20	1470		96
10:25	1475		98
10:30	1480		98
2nd Setting Average Press	sure = 1473		Rate = 97.0
10:30	1485		164
10:35	1490		149
10:40	1490		160
10:45	1490		154
10:50	1495		151
3rd Setting Average Press	sure = 1490		Rate = 155.6
10:50	1500		224
10:55	1500		198
11:00	1510		215
11:05	1510	an a	225
11:10	1510		218
4th Setting Average Press	sure = 1506		Rate = 216.0
and the second			

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#### STEP RATE TEST TEAS YATES UNIT #10-3 CONT'D

11:10 $1525$ $345$ $11:15$ $1530$ $325$ $11:20$ $1530$ $335$ $11:25$ $1530$ $321$ $11:30$ $1530$ $319$ Sth Setting Average Pressure = $1529$ Rate = $329.0$ $11:30$ $1540$ $410$ $11:35$ $1540$ $413$ $11:40$ $1540$ $408$ $11:45$ $1540$ $413$ $11:50$ $1540$ $415$ 6th Setting Average Pressure = $1540$ Rate = $411.8$ $11:50$ $1555$ $51$ $11:55$ $1560$ $502$ $12:00$ $1560$ $502$	TE
11:15       1530       325         11:20       1530       335         11:25       1530       321         11:30       1530       319         Sth Setting Average Pressure =       1529       Rate = 329.0         11:30       1540       410         11:35       1540       413         11:40       1540       408         11:45       1540       413         11:50       1540       413         11:50       1540       413         11:50       1540       51         11:50       1555       5.1         11:55       1560       502         12:00       1560       500	
11:20       1530       335         11:25       1530       321         11:30       1530       319         5th Setting Average Pressure =       1529       Rate = 329.0         11:30       1540       410         11:35       1540       413         11:40       1540       408         11:45       1540       413         11:50       1540       413         11:50       1540       415         6th Setting Average Pressure =       1540       Rate = 411.8         11:50       1555       51         11:55       1560       502         12:00       1560       500	
11:25 $1530$ $321$ $11:30$ $1530$ $319$ $5th$ Setting Average Pressure = $1529$ $Rate = 329.0$ $11:30$ $1540$ $410$ $11:35$ $1540$ $413$ $11:40$ $1540$ $408$ $11:45$ $1540$ $413$ $11:50$ $1540$ $413$ $11:50$ $1555$ $51.$ $11:55$ $1560$ $502$ $12:00$ $1560$ $500$	
5th Setting Average Pressure =1529Rate = $329.0$ 11:30154041011:35154041311:40154040811:45154041311:5015404156th Setting Average Pressure =1540Rate = $411.8$ 11:50155551.11:55156050212:001560500	
11:30 $1540$ $410$ $11:35$ $1540$ $413$ $11:40$ $1540$ $408$ $11:45$ $1540$ $413$ $11:50$ $1540$ $415$ $6th$ Setting Average Pressure = $1540$ Rate = $411.8$ $11:50$ $1555$ $51.$ $11:55$ $1560$ $502$ $12:00$ $1560$ $500$	19 <sup>95</sup> -
11:35       1540       413         11:40       1540       408         11:45       1540       413         11:50       1540       415         6th Setting Average Pressure =       1540       Rate = 411.8         11:50       1555       51         11:55       1560       502         12:00       1560       500	
11:40       1540       408         11:45       1540       413         11:50       1540       415         6th Setting Average Pressure =       1540       Rate = 411.8         11:50       1555       51         11:55       1560       502         12:00       1560       500	
$11:45$ $1540$ $413$ $11:50$ $1540$ $415$ $6th$ Setting Average Pressure = $1540$ $Rate = 411.8$ $11:50$ $1555$ $51_{-}$ $11:55$ $1560$ $502$ $12:00$ $1560$ $500$	
11:50 $1540$ $415$ 6th Setting Average Pressure = $1540$ Rate = $411.8$ $11:50$ $1555$ $51.$ $11:55$ $1560$ $502$ $12:00$ $1560$ $500$	
6th Setting Average Pressure =       1540       Rate = 411.8         11:50       1555       51.         11:55       1560       502         12:00       1560       500	
11:50     1555     51.       11:55     1560     502       12:00     1560     500	
11:55156050212:001560500	
12:00 1560 500	
	ĽŅ.
12.05	
12:00 DOCI 202	
12:10 1560 502	
7th Setting Average Pressure = 1559 Rate = 504.2	
12:10 1570 615	
12:15 1570 603	
12:20 1570 598	
12:25 1570 602	t i v
12:30 1570 598	
8th Setting Average Pressure'= 1570 Rate = 603.2	



# STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

TONEY ANAYA GOVERNOR June 2, 1983

POST OFFICE 80X 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-5800

Anadarko Production Company 900 Gibralter Savings Center P. O. Box 2497 Midland, Texas 79702

Attention: Mark E. Fesmire, P.E. Sr. Reservoir Engineer

Re: Administrative approval request for an increase in the maximum surface pressure limitation on the Teas Yates Unit affected by Order No. R-7084

Dear Mr. Fesmire:

Your letter requesting a "blanket" approval for an increase in the maximum surface injection pressure has been reviewed by my staff. The step-rate test you sent indicated a clear surface fracture pressure of 1349 psi. Based on this data and your statement that the reservoir is fairly homogeneous, a "blanket" pressure increase for all current injection wells on the Teas Yates Unit will be allowed. A standard 50 psi safety margin to compensate for pressure surges or other unforseeable circumstances will be assigned to the maximum pressure granted. Anadarko Production Company is therefore allowed to increase the maximum surface injection pressure for the current Teas Yates Unit wells from 1150 psi to 1300 psi. All other provisions of Order No. R-7084 remain in effect.

Should you have any questions concerning this mitter, please forward them to Gilbert Quintana at 827-5807.

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Sincerely OE D. RAMEY, Division Director

cc: Gilbert Quintana Case File No. 7677 Hobbs District Office



April 27, 1983

State of New Mexico Department of Energy & Minerals Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501 Attn: Joe D. Ramey

Dear Sir:

Anadarko Production Company, as Operator of the Teas Yates Unit, located in Sections 10,11,13,14 & 15, T2OS, R33E, and Section 18, T2OS, R34E, NMPM, Lea County, New Mexico requests administrative approval to increase the surface injection pressure on all unit injection wells subject to a pressure limitation from 1150 psig to 1350 psig. The 1150 psig current pressure limitation is per paragraph 5, NMOCD Order No. R-7084 dated September 30, 1982 and rendered in Case No.7677.

Enclosed please find 2 copies of a step rate test conducted 4-14-83 on Teas Yates Unit WIW # 10-3. The surface pressure readings indicate a fracture pressure of 1346 psig at a rate of 240 BWIPD. The mid-perf pressure data indicates a down-hole fracture pressure of 2724 psig at a rate of 235 BWIPD. The request for a surface injection pressure limitation of <u>1350 psig</u> is based on this step rate test.

Sincerely,

Mark E. Fesmire P.E. Senior Reservoir Engineer

MEF:gks

cc: Mr. Jerry Sexton NMOCD Hobbs

> John English APC Eunice

		April 14, 1983	
	RATE BW1PD	SURFACE PRESSURE PSIC	MID PERF PRESSURE PSIA
	83	1105	2519.2
	114	1175	2588.2
lst	160	1235	2652.2
Line	213	1295	2675.2
	234	1340	2717.2
	238	1350	2725.5
	320	1360	2735.2
	376	1370	2745.0
2nd	455	1380	2756.5
Line	540	1395	2771.2
	596	1405	2775.2
	665	1415	2780.2
	720	1420	2786.2
	785	1430	2794.5
		$\underline{is}$ : Rate = a + b (Pressure)	
	1st Line: Surface		
	Rate = $-673.4914 + .$	6783 (Pressure) R <sup>2</sup> = .9863	
	2nd Line: Surface		
	Rate = $-8275.7087 + $	6.3255 (Pressure) R <sup>2</sup> = .9935	
	Simultaneous Solution		
	lst Line: Bottom Hol	WIPD Pressure = 1346.1925 psig	
		.7988 (Pressure) R <sup>2</sup> = .9443	
	2nd Line: Bottom Hole	<u>e</u>	
	Rate = $-19851.7156 +$	7.3749 (Pressure) $R^2 = .9756$	
	Simultaneous Solution Rate = 235.3369	n Point: Pressure = 2723.7051 ps	ia

#### STEP RATE TEST TEAS YATES UNIT 10-3



ANADARKO PRODUCTION COMPANY 900 GIBRALTAR SAVINGS CENTER + P.O. BOX 2497 + MIDLAND, TEXAS 79702



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May 12, 1983



State of New Mexico Department of Energy & Minerals Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501 Attn: Gilbert Quintana

Dear Gilbert:

Attached please find two copies of the step rate test that we discussed in our phone conversation of 5-12-83. Also attached is a copy of the original letter to Mr. Ramey.

I appreciate the extra effort expended by you in helping expedite this matter.

Sincerely,

Mark E. Fesmire P.E. Sr. Reservoir Engineer

MEF:gks



April 27, 1983

State of New Mexico Department of Energy & Minerals Oil Conservation Division P. 0. Box 2088 Santa Fe, New Mexico 87501 Attn: Joe D. Ramey

OIL CONSERVATION DIVISION SANTA FE

Dear Sir:

Anadarko Production Company, as Operator of the Teas Yates Unit, located in Sections 10,11,13,14 & 15, T2OS, R33E, and Section 18, T2OS, R34E, NMPM, Lea Courty, New Mexico requests administrative approval to increase the surface injection pressure on all unit injection wells subject to a pressure limitation from 1150 psig to 1350 psig. The 1150 psig current pressure limitation is per paragraph 5, NMOCD Order No. R-7084 dated September 30, 1982 and rendered in Case No.7677.

Enclosed please find 2 copies of a step rate test conducted 4-14-83 on Teas Yates Unit WIW # 10-3. The surface pressure readings indicate a fracture pressure of 1346 psig at a rate of 240 BWIPD. The mid-perf pressure data indicates a down-hole fracture pressure of 2724 psig at a rate of 235 BWIPD. The request for a surface injection pressure limitation of 1350 psig is based on this step rate test.

Sincerely,

Make F-

Mark E. Fesmire P.E. Senior Reservoir Engineer

MEF:gks

cc: Mr. Jerry Sexton NMOCD Hobbs

> John English APC Eunice

## STEP RATE TEST TEAS YATES UNIT 10-3 April 14, 1983

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	RATE BWI PD	SURFACE PRESSURE	MID PERF PRESSURE PSIA
	83	1105	2519.2
	114	1175	2588.2
lst	160	1235	2652.2
Line	213	1:.55	2675.2
	234	1340	2717.2
•	288	1350	2725.5
	320	1360	2735.2
	376	1370	2745.0
2nd	455	1380	2756.5
Line	540	1395	2771.2
	596	1405	2775.2
	665	1415	2780.2
	720	1420	2786.2
	785	1430	2794.5
	Least Squares Analysis <u>lst Line</u> : <u>Surface</u>		
	Rate = $-673.4914 + .678$	33 (Pressure) $R^2 = .9863$	
	<u>2nd Line: Surface</u> Rate = -8275.7087 + 6.3	3255 (Pressure) R <sup>2</sup> = .9935	
	Simultaneous Solution Point: <u>Rate = 239.6310 BWIPD</u> <u>Pressure = 1346.1925 psig</u>		
	lst Line: Bottom Hole		
	Rate = $-1940.3587 + .79$	88 (Pressure) $R^2 = .9443$	
234 	2nd Line: Bottom Hole		

Rate = -19851.7156 + 7.3749 (Pressure)  $R^2 = .9756$ Simultaneous Solution Point:

Rate = 235.3369 Pressure = 2723.7051 psia



Mark Fesmine Fesmine Anadarko 915-682-1666

Ihis step-rate test was used to allow an injection pressure increase for the subject well (Teas Yates UN: + 10-3) in a Paoning (1982). Amadarko is going to apply for a blanket injection limit, furthe unit using additional deprote stata. Wait on additional stata! ANADARKO PRODUCTION COMPANY 900 GIBRALTAR SAVINGS CENTER + P. O. BOX 2497 + MIDLAND, TEXAS 79702 Send to Daitor Anadarka September 13, 1983 New Mexico Oil Conservation Division District 1 Box 1980 Hobbs, New Mexico Re: NMOCD Case File 7677 SEP 22 1983 OF CONSERVATION DIVISION SAFITA FE

Dear Sirs:

Attached, for your information, is the results of a step rate test run on Anadarko's Tens Yates Unit 10-3 Water Injection Well on 8-31-83.

Sincerely, Man E. "

Mark E. Fesmire P.E. Sr. Reservoir Engineer

MEF:gks






RECEIVED SEP 1 5 1983 HOBES OFFICE





GRAPHIC CONTROLS CORPORATION BUFFALO, NEW YORK



# TIME IN POUR





RECEIVED SEP 1 5 1983 HUBBS C.D.

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# ANADARKO PRODUCTION COMPANY TEAS YATES UNIT TRACT 10 No. 3 BOTTOM HOLE PRESSURE STEP RATE TEST TABULATION OF TIMES AND PRESSURES

TEST DATE:	AUGUST 30 to 31, 1983
TEST DEPTH:	3042 Feet
ELEMENT NO:	24635 (0-4050 psi)
OPERATOR:	Т.В.

DATE	TIME	CUM HRS	./MIN.	PS1G @ 3042 FEET
8-30-83	12:45 P.M.	00 Hrs.	00 Min.	2578 gauge reached 3042'
	1:00 P.M.	00	15	2576
	1:15 P.M.	00	30	2570
	1:30 P.M.	00	45	2564
	1:45 P.N.	10	00	2559
	2:15 P.M.	01	30	2.551
	2:45 P.M.	02	00	2541
	3:15 P.M.	02	30	2531
	3:45 P.M.	03	00	2520
	4:45 P.M.	04	00	2502
	5:45 P.M.	05	00	2480
	6:45 P.M.	06	00	2459
	7:45 P.M.	07	00	2439
	8:45 P.M.	08	00	2417
	9:45 P.N.	09	00	2396
	10:45 P.M.	10	00	2376
	11:45 P.M.	11	00	2356
8-30-83	12:45 P.M.	12	00	2333
8-31-83	1:45 A.M.	13	00	2317
8-51-83	2:45 A.M.	14	00	2297
	3:45 A.M.	15	00	2278
	4:45 A.M.	16	00	2262
	5:45 A.M.	17	00	2246
	6:45 A.M.	18	00	2232
	7:40 A.M.	18	55	2213
	7:45 A.M.	19	00	2213 Started Injection
	8:00 A.M.	19	15	2443 End Rate I
	8:15 A.M.	19	30	2537 End Rate II
	8:30 A.M.	19	45	2615 End Rate III
	8:45 A.M.	20	00	2670 End Rate IV
	9:00 A.M.	20	15	2715 End Rate V
	9:15 A.M.	20	30	2748 End Rate VI
	9:30 A.M.	20	45	2768 End Rate VII
	9:45 A.M.	21	00	2789 End Rate VIII
	10:00 A.M.	21	15	2807 End Rate IX
8-31-83	10:05 A.M.	21	20	2777 gauge off bottom, end
				of Test.

# TEST CONDUCTED BY: JOHN WEST ENGINEERING COMPANY

RECEIVED SEP 1 5 1983 HOBESCA 



The following data points were obtained in a step rate test that was run on 5-26-82 and was witnessed by Mr. Edd See with the Oil Conservation Division.

	FINAL SURFACE	FINAL RATE
<u>PT. #</u>	PRESSURE (psig)	(BWIPD)
1	960	190
2	1010	270
3	1035	368
4	1050	421
5	1060	467
6	1070	508
7	1055	576
8	1065	665
9	1115	705
10	1155	823
11	1165	934
12	1185	1054
13	1195	1122
14	1205	1234

The recorded rates and pressures are after a 45 minute stabilization time.

Points 1, 7, 8 and 9 appear to be bad data.

Using points 2, 3, 4, 5, 6 and 10 in a least squares analysis, the equation for the best fit line is:

BWIPD = -3577.9179 + 3.8126 (Pressure)  $r^2 = .9995$ 

Using points 11, 12, 13 and 14 in a least squares analysis, the equation for the best fit line is:

BWIPD = -7545.4286 + 7.2686 (Pressure)  $r^2 = .9768$ 

Equating the two lines and solving for the intersection will give the surface fracture pressure:

-3577.9179 + 3.8126 (P) =  $-7545.4286 \div 7.2686$  (P) <u>P</u> = 1148.01 psig

Calculated Fracture Pressure = 1148 psig

1		3		
2 3 4	STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION STATE LAND OFFICE BLDG. SANTA FE, NEW MEXICO			
		ember 1982		
5		R HEARING		
6				
7	IN THE MATTER OF:	•		
8	Application of Anac Company for a water Lea County, New Mer	flood expansion, 7677		
10				
11				
12				
13	BEFORE: Daniel S. Nutter			
14				
15	TRANSCRI	IPT OF HEARING		
16				
17	АРРЕ	ARANCES		
18				
19	For the Oil Conservation	W. Perry Pearce, Esg.		
20	Division:	Legal Counsel to the Division State Land Office Bldg.		
21		Santa Fe, New Mexico 87501		
22	n an Araba an Anna an Argana an an an Anna Anna Anna. Anna an Anna Anna Anna Anna Anna Anna A			
23	For the Applicant:	W. Thomas Kellahin, Esq. KELLAHIN & KELLAHIN		
24		117 No. Guadalupe Santa Fe, New Mexico 87501		
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22			
23			
24 25			100

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MR. NUTTER: Call next Case Number 7677.
MR. PEARCE: That is on the application of
Anadarko Production Company for a waterflood expansion, Lea
County, New Mexico.
MR. KELLAHIN: I'm Tom Kellahin of Santa
Fe, New Mexico, appearing on behalf of Anadarko and I have
one witness.
(Witness sworn.)
MARK FESMIRE
being called as a witness and being duly sworn upon his oath,
testified as follows, to-wit:
DIRECT EXAMINATION
BY MR. KELLAHIN:
Q Nould you please state your name and oc-
cupation for the record?
A. My name is Mark Fesmier, F-E-S-M-I-R-E.
I'm a Senior Production Engineer for Anadarko Production Com-
pany in Midland, Texas.
Q Mr. Fesmire, have you previously testified
l de la companya de l
before the Division?

1 2 Q, Would you tell Mr. Nutter when and where you obtained your degree? 3 I have a degree in geological engineering A. 5 from New Mexico State University. I have a degree in civil engineering from 6 7 the same institution, both in May of 1978. 8 What are your responsibilities for Ana-0. darko Production Company? 9 10 Currently I'm responsible for the Teas A. 11 Yates Waterflood located in Lea County, New Mexico. 12 And have you made a study of and prepared 0. 13 certain exhibits will regards to this application, Mr. Fes-14 mire? 15 Yes, sir, I have. Α. 16 MR. KELLAHIN: We tender Mr. Fesmire as 17 an expert petroleum engineer, Mr. Nutter. 18 MR. NUTTER: Mr. Fesmire is qualified. 19 Mr. Fesmire, let me direct your attention 20 to what I have marked and submitted to the Examiner as Exhibit 21 Number One, and have you first of all indicate for us on the 22 exhibit how the Teas Yates Unit is defined. 23 The Teas Yates Unit is a 1200-acre unit 24 located in Sections 11, 10, 15, 14, 13, Township 20 South, 25 Range 33 East, and 40 acres in Township 20 South, Range 34

1	5
2	East.
3	Q. What are you seeking to accomplish by
4	this application, Mr. Fesmire?
5	A. With this application we intend to expand
6	the waterflood within the boundaries of the unit to an appro-
7	ximate 20 acre spacing by the addition of by drilling three
8	new injection wells and converting two producing wells to
9	injection.
10	Q. Can you reference us to the prior Division
11	order that approved the waterflood project?
12	A. Order R-4077.
13	Q. All right, sir, and how have you identi-
14	fied the three new injection wells and the two producing
15	wells to be converted to injection on your exhibit?
16	A. Currently the structure of the unit dic-
17	tates a need for injection along the crest of the structure
18	within the within the Yates Sand.
19	Q. Would you identify for us for the record
20	the three new injection wells?
21	A. The three new injection wells are going
22	to be Well 1-2, located 1980 foot from the north line and 10
23	foot from the west line of Section 18, Township 20 South,
24	Range 34 East; Well No. 8-4, located 2250 feet from the south
25	line and 975 feet from the west line of Section 13, Township

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1 6 2 20 South, Range 33 East. The last injection well to be 3 drilled is the Teas Yates Unit No. 13-2, which is 10 foot 4 from the south line and 660 foct from the west line of Section 5 11, Township 20 South, Range 33 East. 6 The two wells to be converted are Teas 7 Yates Unit 5-3, which is 1980 foot from the north line and 8 1650 foot from the west line of Section 14, Township 20 South, 9 Range 33 East, and 2-1, which is 1980 foot from the north 10 line and 1980 foot from the west line of Section 12, Township 11 20 South, Range 33 East. 12 MR. NUTTER: Section 13. 13 Yes, sir, Section 13. A. 14 All right, sir, let me show you what 0. 15 we've marked as Exhibit Number Two, and would you identify 16 that exhibit for us, please? 17 Yes, sir, that's a structure map done 18 on the top of the Yates pay. 19 Was the structure map used by you in making 0. 20 a decision about where to locate your injection wells? 21 Yes, sir. When this flood was originated Ά. 22 of the ten injectors, they were all around the periphery of 23 the structure. Of the ten original injectors, five have been 24 dry holes or depleted when converted, had very low recoveries. 25 What we intend to do with the new injectors

1 7 and with the conversions is come in and increase the -- the 2 area injected into. 3 Do you have a recommendation to the 4 0. Examiner as to a pressure limitation on the surface for the 5 injection wells? 6 Yes, sir, we drilled Teas Yates Unit Well 7 A. No. 10-3 as an injector late last year and early this year, 8 and we tested it. We ran a step rate test on it. 9 The step rate test indicated a surface 10 11 fracture pressure of 1150 pounds. That's the limitation. All right, sir, is that a pressure in ex-12 0. cess of the .2 per foot of depth, the guideline the Division 13 has set forth? 14 A. Yes, sir, it is. 15 16 All right, let me show you then Exhibit 17 Number Three and ask you if that is the step rate test to 18 which you've referred? Is that the step rate test, Mr. --19 A. Yes, sir, it is. There's a tabulation --20 the second page is a tabulation; the front page is a graphical 21 representation. 22 0. All right, sir, when was that test run, Mr. Fesmire? 23 24 May 26th, 1982. It was witnessed by Mr. A. 25 Ed See with the Oil Conservation Division.

8 1 Q. All right. Would you show us where, on 2 your exhibit Number One, where the well is located that the 3 step rate test was conducted on? 4 A. The well is located in the south -- as 5 you are -- it's 10-3 in Section 10. It's about in the middle 6 of the unit. 7 In your opinion, Mr. Fesmire, is the step 0, 8 rate test results for the 10-3 Well a fair representation, in 9 your opinion, of the pressure limitation that ought to be set 10 forth for all the injection wells in the project? 11 At the present time, yes, sir. 12 Δ. Now what is your current injection pres-13 sure on the existing injection wells, Mr. Fesmire? 14 Currently we are injecting between 1600 15 and 1800 pounds in all the injection wells in the unit. 16 Mr. Fesmire, I show you what I've marked 17 0. as Anadarko Exhibit Four and ask you to identify that. 18 This is a tabulation of the casing and 19 drilling programs for all wells within a one-half mile radius 20 of each new injection well, broken down by those injection 21 22 wells. All right, sir, have you also tabulated 23 and attached wellbore schematics for any plugged and aban-24 doned wells within the half mile radius? 25

Yes, sir. Within that packet is also a 2 A. schematic for each and every plugged and abandoned well with-3 in one-half mile of that new injection well broken down by 4 5 injection well, the new injection wells. Also included is a schematic of the pro-6 7 posed completion of that injection well. Mr. Fesmire, have you examined the avail-8 Q. 9 able geological engineering data to determine whether there 10 are any open faults or other hydrologic connections between 11 the injection formation and any underground sources of drinking 12 water? 13 Yes, sir. We find no indication of that Α. 14 communication. 15 Where is the nearest fresh water well in 16 the area? 17 The nearest fresh water well in the area A. 18 belongs to the Berry Ranch, approximately 5038 feet southeast 19 of our injection well 10-3, located in Section 24. The well 20 has a total depth of 800 foot; pumps from approximately 600 foot; has a standing water level of 400 foot. 21 22 What is the source of the injection water 23 that's injected in this project? 24 The injection water we're using is Seven Δ 25 Rivers Reef water from our water supply well No. 1, located

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1.0	
in Tract 5 and make-up water from produced water from the	
unit.	
0. Mr. Fesmire, I show you what I've marked	
identify it.	
A. That's a production history graph of the	
Teas Yates Unit from unitization to present.	
Q. In your opinion, Mr. Fesmire, are the ad-	
ditional injection wells necessary in order to have an effective	€
and efficient waterflood project?	
A. Definitely.	
Q Have you made any calculations to determine	
the additional recovery that you might anticipate from the	
additional injection operation?	
A Yes, sir. The entire project that we're	
proposing, these injection wells and some new producing wells,	
will recover some additional 690,000 barrels over what the	
unit would recover without this drilling.	
Q Mr. Fesmire, let me direct your attention	
back to the packet of wellbore schematics and tabulation of	R INA
	<pre>in Tract 5 and make-up water from produced water from the unit. Q Mr. Fesmire, I show you what I've marked as Applicant Exhibit Number Five and ask you to identify it. A That's a water analysis we had run on that Berry Ranch well. It indicates no contamination from the unit Q All right, sir, I'll show you what I've marked as Exhibit Number Seven, Mr. Fesmire, and ask you to identify it. A That's a production history graph of the Teas Yates Unit from unitization to present. Q In your opinion, Mr. Fesmire, are the ad- ditional injection wells necessary in order to have an effective and efficient waterflood project? A Definitely. Q Have you made any calculations to determine the additional recovery that you might anticipate from the additional injection wells and some new producing wells, will recover some additional 690,000 barrels over what the unit would recover without this drilling. Q Mr. Fesmire, let me direct your attention</pre>

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1	11
2	offset producing wells and have you identify for us in that
3	package of exhibits the proposed wellbore schematic for the
4	injection wells.
5	A. Okay. Within that packet is a schematic
6	for each and every injection well we intend to drill and the
7	ones we intend to convert.
8	Q. Would you find one of those schematics
9	for us, identify it, and explain how you propose to complete
10	it as an injection well?
11	A. Five pages into that exhibit is the Teas
12	Yates Unit Proposed Injection Well 1-2 schematic.
13	It shows we intend to run 9-5/8ths inch
14	36-pound, K-55 casing to a depth of approximately 1450 foot,
15	in accordance with the Rule R-111 potash area casing program.
16	The cement on that string will be circulated.
17	We then intend to run a 7-inch 23-pound
18	K-55 casing an 8-3/4-inch hole set at approximately 3250 feet.
19	Cement will be also will be staged and circulated on that
20	string also.
21	Finally, we intend to run a $4-1/2$ inch
22	10.5-pound full liner from surface to TD and tie and cemen
23	that string back to into the 7-inch.
24	Q Will all these new injection wells be
25	completed in accordance with the rules of set forth in the

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in the second states and the second states in the second states in the second states in the second states in the

	<b></b>	
1	R-111-A orders	? 12
2	Ρ.,	Yes, sir.
3	Q.	Approximately, Mr. Fesmire, what will be
4	the average in	jection volume per well?
5	A.	The average injection volume should be
6	approximately	250 barrels a day after stabilization. We do
7	not intend to	inject any more than 400 barrels a day.
8	рания с стана Долгания развития Долгания развития развития с стана развития с стана развития с стана развития с стана развития	And what will be the source again of the
9	injection wate	r?
10	А.	It will be unit water that is produced on
11	the unit and m	ake-up water from our Seven Rivers water supply
12	well.	
13	Q.	This is water you're currently using in
14	the waterflood	project.
15	<b>A.</b>	Yes, sir.
16	Q.	And what is the injection formation?
17	A.	The injection formation is the Yates form-
18	ation, approxim	nately 3400 - 3500 feet.
19	Q.	All right, sir. And do you propose any
20	stimulation pro	ogram for the injection wells?
21	<b>A.</b>	Yes, sir. The stimulation program for the
22	injection wells	will be simply a matrix acid job consisting
23	of approximatel	y 5000 gallons of 20 percent NEFD (sic) acid.
24	n ny karalarana ara-darana ara-darana ara-darana ara-darana ara-darana ara-darana ara-darana ara-darana ara-da Ara-dara ara-dara ara-	We don't intend to frac the injection welle.
25	2	Mr. Fesmire, have you provided copies of

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1 13 2 the application and information to the offset operators and to the owners of the surface locations of the injection wells? 3 4 A. Yes, sir, we have. 5 0. In your opinion, Mr. Fesmire, will approval of this application be in the best interest of conserva-6 7 tion, the prevention of waste, and the protection of correla-8 tive rights? 9 Yes, sir. Δ 10 And were Exhibits One through Five and 0. Exhibit Seven prepared by you or compiled under your direction 11 12 and supervision? 13 Yes, sir. MR. KELLAHIN: Mr. Nutter, we move the 14 15 introduction of Exhibits One through Five and Exhibit Seven. 16 MR. NUTTER: Exhibits One through Five and 17 Seven will be admitted in evidence. 18 19 CROSS EXAMINATION 20 BY MR. NUTTER: 21 Mr. Fesmire, you currently have, I believe, Q. 22 about nine injection wells in this project 23 Yes, sir. A. 24 -- is that right? 25 Nine wells. Α.

				1
I				14
2		Q.	And you're adding five more.	
3		Δ.	Yes, sir, but we intend to plug	and aban-
4	don 1-1	•		
5		Q.	Oh, you will abandon one of the	injection
6	wells?			
7		Λ.	Yes, sir.	
8		Q.	I can't find that one oh.	
9	· · ·	<b>A.</b>	That's about right. The casing	on that
10	was set	way too hig	h and we don't feel that we'll be	able to
11	save it	and keep it	as a good injection well.	
12		<b>Q</b> .	Where is 1-1? It's not on your	exhibit
13	there.			
14		<b>A</b> .	No, sir, it's already been remov	ed from
15	that pro	oposec plat.	It's a normal location in that	40-acre
16	spot.			
17		Q.	Has it already been abandoned?	
18		A.	No, sir, we're we're not inje	cting much
19	into it	but it still	l is in active injection operatio	n.
20		Q	Would you submit your proposed p	lugging
21	program	to us?		
22	n na ann an Anna an Anna Anna. Anna Anna Anna Anna Anna Anna Anna Anna	A.	Yes, sir,	
23		<b>Q.</b> 10	Before we enter an order in this	case?
24		<b>A</b> .	Yes.	
25		an a	MR. KELLAHIN: Mr. Nutter, on va	rious

1 15 2 exhibits submitted with the application that well has been 3 shown. In fact it's on this one here. 4 MR. NUTTER: It shows it an abandoned well 5 there, Okay. 6 Mr. Fesmire, so you've been authorized Q. 7 ten wells but you've got nine active injection wells --8 Yes, sir. A. 9 -- and you propose to add five more. Q. 10 Right. A. So you have a total of fourteen wells. 11 Q. 12 Correct, A. 13 Now, at the current injection, you're 14 using the nine wells. How much are you injecting per day at 15 the present time in those nine wells? 16 I have that figure, sir. Last month, A. 17 as a monthly total, we injected 51,656 barrels. 18 And you've plotted here on your Exhibit Number Seven the rates of injection and I presume that amounts 19 20 to approximately 1800 barrels per day, is that it? 21 Yes, sir. A. That's for the total of the nine wells. 22 0. 23 Yes, sir. We're going to lower the injection pressures and the rates in each well. 24 Uh-huh, so currently you're injecting 25 Q.

1 16 2 about two hundred barrels per day average. 3 Approximately, yes. ٨. And you stated that -á Q. 5 ۸. No, sir. About 1800 barrels a day No. on the unit. 6 7 Oh, I mean per well. Q. R. Oh, yes, sir. Α. 9 Per well, assuming each of the nine wells Q. 10 Right. Α. 11 -- taking its proportionate share. Q, 12 Right. A. 13 So that would be about 1800 barrels per 14 day and 200 barrels per day per well. Ycs, sir. 15 A. 16 All right. Now, what is your average Q. 17 injection pressure? 18 That's --19 What's the range? Q. 20 Between 16 and 1800 pounds. A. 21 16 to 1800, and what is the average? Q. 22 Probably close to 1650, sir. A. 23 Okay, now you expect to inject an addition 24 al 400 barrels a day, you say? 25 That would be a maximum, sir. On the new A

1 17 2 wells we intend to inject an average of 250 barrels per day. 3 And you will lower the injection pressure 0. 4 on all wells. 5 Yes, sir. We currently have AFE'd a work-A. 6 over program that involves going in and working over each and 7 every injection well on the unit to achieve this. 8 Try to make the formation a little more 0. 9 receptive to the water? 10 Yes, sir. We've -- for the ten years A. 11 we've been taking some trash water and putting it in there. 12 When we started the flood we had to take any water we could 13 get and we have done some damage to the formation. 14 Going to clean it up? Q. 15 Yes, sir. A.: 16 Okay, and then you will have an average Q. 17 injection pressure of what? 18 We're hoping to keep it down below the A. 19 1150, sir. 20 MR. NUTTER: Are there any further questions 21 of Mr. Fesmire? 22 MR. KELLAHIN: No, sir. 23 MR. NUTTER: He may be excused. 24 Do you have anything further, Mr. Kellahin 25 MR. KELLAHIN: No, sir.



a	2		
20		and some statements	

CERTIFICATE

£

BOYD, C.S.R.

I, SALLY W. BOYD, C.S.R., DO HEREBY CERTIFY that the foregoing Transcript of Hearing before the Oil Conservation Division was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability.

Salley W. Boyd CSR

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 7677 heard by me on 9/15 19 87. Examiner Oil Conservation Division



# STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

GOVERNOR ADDA KEHUE SECRETARY

September 30, 1982

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA F& NEW MEXICO 87501 (505) 827-2434

Mr. Thomas Kellahin Kellahin & Kellahin Attorneys at Law Post Office Box 1769 Santa Fe, New Mexico

CASE NO. 7677 ORDER NO. <u>R-7084</u> Re:

Applicant:

# Anadarko Production Company

Dear Sir:

Enclosed herewith are two copies of the above-referenced Division order recently entered in the subject case.

fours very truly, JOE D. RAMEY Director

#### JDR/fd

Copy of order also sent to:

Hobbs	000	¥.
Artes:	ia O <u>CD</u>	×
Aztec	OCD	

Other

## STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

> CASE NO. 7677 Order No. R-7084

APPLICATION OF ANADARKO PRODUCTION COMPANY FOR A WATERFLOOD EXPANSION, LEA COUNTY, NEW MEXICO.

## ORDER OF THE DIVISION

#### BY THE DIVISION:

This cause came on for hearing at 9 a.m. on September 15, 1982, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this <u>30th</u> day of September, 1982, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

#### FINDS:

(1) That due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Anadarko Production Company, seeks authority to expand its Teas Yates Waterflood Project on its Teas Yates Unit, Teas Yates-Seven Rivers Pool, Lea County, New Mexico, by converting two wells located in Unit F of Sections 13 and 14, Township 27 South, Range 33 East, NMPM, to water injection and drilling three new injection wells at unorthodox locations in Units M of Section 11 and Unit L of Section 13, Township 20 South, Range 33 East, and Unit E of Section 18, Township 20 South, Range 34 East, NMPM, Lea County, New Mexico.

(3) That the wells in the project area are in an advanced state of depletion and should properly be classified as "stripper" wells.

(4) That the proposed waterflood project expansion should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.

(5) That the operator should take all steps necessary to ensure that the injected water enters only the proposed

-2-Case No. 7677 Order No. R-7084

injection interval and is not permitted to escape to other formations or onto the surface from injection, production, or plugged and abandoned wells, and provided further, that prior to injection of water into proposed injection wells Tract 2 No. 1 and Tract 8 No. 4, applicant should take such steps as may be deemed nocessary by the Supervisor of the Hobbs District Office of the Division to ensure the integrity of the casing, cementing, and plugging of Teas Yates Unit Tract 8 Well No. 1 (the old Spartan Federal 1-13) located in Unit E of Section 13, Township 20 South, Range 13 East, NMPM.

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(6) That the injection wells or injection pressurization system should be so equipped as to limit injection pressure at the wellhead to no more than 1150 psi, but the Division Director should have authority to increase said pressure limitation, should circumstances warrant.

(7) That the subject application should be approved and the project should be governed by the provisions of Rules 702 through 708 of the Division Rules and Regulations.

#### IT IS THEREFORE ORDERED:

(1) That the applicant, Anadarko Production Company, is hereby authorized to expand its Teas Yates Waterflood Project on its Teas Yates Unit, Teas Yates-Seven Rivers Pool, Lea County, New Mexico, by the injection of water into the Yates formation through the following described wells:

## Old wells to be converted

Well

Unit <u>No</u>	Tract
5	

No. Location

5 3 1980' FNL and 1650' FWL, Section 14; 2 1 1980' FNL and 1980' FWL, Section 13; Both in Township 20 South, Range 33 East, NMPM.

#### New injection wells at unorthodox locations

Unit Tract

No. No. Location

Well

8 13

1

4 2250' FSL and 975' FWL, Section 13; 2 10' FSL and 660' FWL, Section 11; Both in Township 20 South, Range 33 East, NMPM.

2 1980' FNL and 10' FWL, Section 18, Township 20 South, Range 34 East, NMPM. -3-Case No. 7677 Order No. R-7084

(2) That prior to injection of water in unit wells Tract 2 No. 1 and Tract 8 No. 4 as described above, applicant shall take such steps and action as may be deemed necessary by the Supervisor of the Hobbs District Office of the Division to ensure the integrity of the casing and cementing, as well as the subsequent plugging of Unit Well Tract 8 No. 1, located in Unit E of Section 13, Township 20 South, Range 33 East, NMPM.

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(3) That injection into each of said wells shall be through internally coated tubing, set in a packer which shall be located as near as practicable to the uppermost perforation; that the casing-tubing annulus of each injection well shall be loaded with an inert fluid and equipped with an approved pressure gauge or attention-attracting leak detection device.

(4) That the operator shall immediately notify the supervisor of the Division's Hobbs district office of the failure of the tubing or packer in any of said injection wells, the leakage of water or oil from around any producing well, or the leakage of water or oil from any plugged and abandoned well within the project area and shall take such timely steps as may be necessary or required to correct such failure or leakage.

(5) That the injection wells herein authorized and/or the injection pressurization system shall be so equipped as to limit injection pressure at the wellhead to no more than 1150 psi, provided however, the Division Director may authorize a higher surface injection pressure upon satisfactory showing that such pressure will not result in fracturing of the confining strata.

(6) That monthly progress reports of the waterflood project herein authorized shall be submitted to the Division in accordance with Rules 706 and 1115 of the Division Rules and Regulations.

(7) That jurisdiction of this cause is retained for the cutry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year

STATE OF NEW MEXICO OL CONSERVATION DIVISION

JOE D. RAMEY, Director



The following data points were obtained in a step rate test that was run on 5-26-82 and was witnessed by Mr. Edd See with the Oil Conservation Division.

РТ. #	FINAL SURFACE PRESSURE (psig)	FINAL RATE (BWIPD)
1	960	190
2	1010	270
3	1035	368
4	1050	421
5	1060	467
6	1070	508
7	1055	576
8	1065	665
9	1115	705
10	1155	823
11	1165	934
12	1185	1054
13	1195	1122
14	1205	1234

The recorded rates and pressures are after a 45 minute stabilization time.

Points 1, 7, 8 and 9 appear to be bad data.

Using points 2, 3, 4, 5, 6 and 10 in a least squares analysis, the equation for the best fit line is:

BWIPD = -3577.9179 + 3.8126 (Pressure)  $r^2 = .9995$ 

Using points 11, 12, 13 and 14 in a least squares analysis, the equation for the best fit line is:

BWIPD = -7545.4286 + 7.2686 (Pressure)  $r^2 = .9768$ 

Equating the two lines and solving for the intersection will give the surface fracture pressure:

-3577.9179 + 3.8126 (P) = -7545.4286 + 7.2686 (P) P = 1148.01 psig

Calculated Fracture Pressure = 1148 psig


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<ul> <li>9-5-58</li> <li>9-5-58</li> <li>3325 - Yates</li> <li>Contractor: Cactus Drlg Co.</li> <li>Clasing: 8 5/8" 240 J-55 set @</li> <li>Di4 cemented v/305 sx.</li> <li>Signi 140 J-55 set @</li> <li>Signi 140 J-55 set @</li> <li>Signi 140 J-55 set @</li> <li>Castary Tool Drilled</li> <li>Contractor: H. P. Holmes</li> </ul>		
<ul> <li>9-5-58</li> <li>9-5-58</li> <li>3525 - Yates</li> <li>Yates</li> <li><u>Open Hole</u>: 3267-3525</li> <li>tion well 5-15-75</li> <li><u>Casing:</u> 8 5/8" 24# J-55 set @ 1514 cemented w/250 sx. Sh" 14# J-55 set @ 3267 cemented w/255 set @ 3267 cemented w/275 sx. cmt. drc.</li> <li><u>Rotary Tool Drilled</u></li> <li><u>Contractor</u>: H. P. Holmes</li> </ul>		
<ul> <li>B 9-5-58</li> <li>Gentiactor: Cactus Dr1g Co.</li> <li>Solid Cemented W/S0 sx.</li> <li>Contractor: Cactus Dr1g Co.</li> <li>Solid Camented W/S0 sx.</li> <li>Casing: 8 5/8" 240 J-35 set @</li> <li>Solid Camented W/S0 sx.</li> <li>Casing: 8 5/8" 240 J-35 set @</li> <li>Solid Camented W/S0 sx.</li> <li>Casing: 8 5/8" 240 J-35 set @</li> <li>Solid Camented W/S0 sx.</li> <li>Casing: 8 5/8" 240 J-35 set @</li> <li>Solid Camented W/S0 sx.</li> <li>Casing: 8 5/8" 240 J-35 set @</li> <li>Solid Camented W/S0 sx.</li> <li>Casing: 1514 commented W/S0 sx.</li> <li>Casing: 1514 co</li></ul>		
<ul> <li>9-5-58</li> <li>3525 - Yates</li> <li>Solid Cemented W/S0 sx.</li> <li>Contractor: Cactus Drlg Co.</li> <li>Solid Cemented W/S0 sx.</li> <li>Casing: 8 5/8" 24# J-55 set @</li> <li>Sid Camented W/S0 sx.</li> <li>Casing: 8 5/8" 24# J-55 set @</li> <li>Sid Camented W/S0 sx.</li> <li>Casing: 8 5/8" 24# J-55 set @</li> <li>Sid Camented W/S0 sx.</li> <li>Casing: 8 5/8" 24# J-55 set @</li> <li>Sid Camented W/S0 sx.</li> <li>Casing: 8 5/8" 24# J-55 set @</li> <li>Sid Casing: 6 154 comented w/375 sx. cmt.</li> <li>Casing: 6 154 comented w/375 sx. cmt.</li> <li>Contractor: H. P. Holmee</li> </ul>		
<ul> <li>B 9-5-59 3525 - Yates</li> <li>Contractor: Cactus Drlg Co.</li> <li>See 0</li> <li>Casing: 8 5/8" 244 J-55 set 0</li> <li>1514 cemented w/250 sx.</li> <li>Casing: 8 5/8" 244 J-55 set 0</li> <li>1514 cemented w/250 sx.</li> <li>Casing: 144 J-55 set 0</li> <li>Sh" 144 J-55 s</li></ul>		
<ul> <li>9-5-58</li> <li>3525</li> <li>Yates</li> <li>Contractor: Cactus Drlg Go.</li> <li>Casing: 8 5/8" 24# J-55 set @</li> <li>Casing: 124 J-55 set @</li> <li< th=""><th></th><th></th></li<></ul>		
<ul> <li>9-5-58</li> <li>9-5-58</li> <li>3325</li> <li>Yates</li> <li>Open Hole: 3267-3525</li> <li>tion well 5-15-75</li> <li>Yates</li> <li>Casing: 8 5/8" 24# J-55 set @ 1514 cemented w/250 sx. cmt. circ. 54" 14# J-55 set @ 3267 cemented w/250 sx. circ. circ.</li> <li>Sotary Tool Drilled</li> <li>Contractor: H. P. Holmes</li> </ul>		
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<ul> <li>9-5-58</li> <li>9-5-58</li> <li>3525</li> <li>Yates</li> <li>Yates</li> <li>Open Hole: 3267-3525</li> <li>Lion well 5-15-75</li> <li>Yates</li> <li>Casing: 8 5/8" 24# J-55 set @ 1514 cemented w/250 sx. cmt. circ. 54" 14# J-55 set @ 3267 cemented w/250 sx. cmt. circ.</li> <li>Rotary Tool Drilled</li> <li>Contractor: H. P. Holmes</li> </ul>		
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<ul> <li>9-5-58</li> <li>9-5-58</li> <li>3525 - Yates</li> <li>Yates</li> <li>Contractor: Cactus Drlg Co.</li> <li>Contractor: Cactus Drlg Co.</li> <li>Spen Hole: 3267-3525</li> <li>Casing: 8 5/8" 24# J-55 set @</li> <li>1514 cemented w/250 sx.</li> <li>Sh" 14# J-55 set @</li> <li>1514 cemented w/375 sx. cmt.</li> <li>circ.</li> <li>Rotary Tool Drilled</li> <li>Contractor: H. P. Holmes</li> </ul>		
<ul> <li>9-5-58</li> <li>9-5-58</li> <li>3525</li> <li>Vates</li> <li>Vates</li> <li>Open Hole: 3267-3525</li> <li>Lion well 5-15-75</li> <li>Vates</li> <li>Casing: 8 5/8" 24# J-55 set @</li> <li>154 cemented w/250 sx. cmt. circ. 54" 14# J-55 set @ 3267 cemented w/375 sx. cmt. circ.</li> <li>Rotary Tool Drilled</li> <li>Contractor: H. P. Holmes</li> </ul>		
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<ul> <li>9-5-58</li> <li>9-5-58</li> <li>3525 - Yates</li> <li>Yates</li> <li>Open Hole: 3267-3525</li> <li>tion well 5-15-75</li> <li>Yates</li> <li>Casing: 8 5/8" 24# J-55 set @</li> <li>1514 cemented w/250 sx.</li> <li>54" 14# J-55 set @ 3267</li> <li>cemented w/375 sx. cmt.</li> <li>circ.</li> </ul>	TTOIL WETT	
8       9-5-58       3525       -       Yates       Contractor: Cactus Drlg Co.         8       9-5-58       3525       -       Yates       Contractor: Cactus Drlg Co.         rt to water       3525       -       Yates       Open Hole: 3267-3525         rto well 5-15-75       -       Signification well 5-15 set @       1514 cemented w/250 sx.         cmt. circ.       5%" 14% J-55 set @       3267         cemented w/375 sx. cmt.       -       5%" 14% J-55 set @         1514 cemented w/375 sx. cmt.       -       5%" 14% J-55 set @         strine circ.       -       5%" 14% J-55 set @         strine circ.       -       -         strine circ.<	TT ALL AND	- 
8       9-5-58       3525       -       Yates       Contractor: Cactus Drlg Co.         8       9-5-58       3525       -       Yates       Open Hole: 3267-3525         rt to water       5/8" 24# J-55 set @       1514 cemented w/250 sx.       cmt. circ.         tion well 5-15-75       5/8" 24# J-55 set @       1514 cemented w/250 sx.         still 5-15 set @       1514 cemented w/250 sx.       Still 14# J-55 set @         cime. circ.       5/8" 14# J-55 set @       3267         cime. circ.       54" 14# J-55 set @       3267         cime. circ.       54" 14# J-55 set @       3267         circ.       54" 14# J-55 set @       3267	YUL CCLTON WETT	••• ••••••
8       9-5-58       3525       -       Yates       Contractor: Cactus Drlg Co.         8       9-5-58       3525       -       Yates       Open Hole: 3267-3525         rt to water       1514 cemented w/250 sx.       Casing: 8 5/8" 244 J-55 set @       1514 cemented w/250 sx.         tion well 5-15-75       5%" 144 J-55 set @       3267         cemented w/375 sx. cmt.       5%" 144 J-55 set @       3267	rulectton wett rulectton	
8       9-5-58       3525       -       Yates       Contractor: Cactus Drlg Co.         8       9-5-58       3525       -       Yates       Open Hole: 3267-3525         rt to water       -       Yates       Open Hole: 3267-3525       -         rton well 5-15-75       -       Yates       Open Hole: 3267-3525       -         1514       cemented w/250 sx.       .       .         514       cemented w/250 sx.       .         54"       14%       J-55 set @ 3267	rulectton wett rulectton	
8       9-5-58       3525       -       Yates       Contractor: Cactus Drlg Co.         rt to water       1514 cemented w/250 sx.       Casing: 8 5/8" 24# J-55 set @       1514 cemented w/250 sx.         tion well 5-15-75       1514 cemented w/250 sx.       cmt. circ.	rulectton wett	
8       9-5-58         3525       -         Yates       Contractor: Cactus Drlg Co.         tion well 5-15-75       -         Yates       Open Hole: 3267-3525         Lion well 5-15-75       -         Yates       Casing: 8 5/8" 24# J-55 set @         1514 cemented w/250 sx.	<b>ナパノムクトナロバ かんす</b> す	
8       9-5-58         3525       -         Yates       Open Hole:         3267-3525         -         Yates         Open Hole:         3267-3525         -         Yates         Open Hole:         3267-3525         -         Yates         Open Hole:         3267-3525	THINGCLICK WEIT	uction Company
3612 cemented w/50 sx.         3525 cemented w/50 s	- rulaceron wert	perator: Anadarko
9-5-58       3525       -       Yates       Open Hole:       3267-3525		•
8 9-5-58 3525 - Varea Open Wold, 3012 cemented w/50 sx.	wat	, a 1
2011 2 cemented w/50 sx. Contractor: Cactus Drlg Co.	rNL UNIT E Water 8-14-38	
12 cemented w/50 sx. Cactus Drlg Co.		
12 cemented w/50 sx. Cactus Drlg Co.		
cemented w/50 sx.		•
cemented w/50 sx.	- 53	
1. 5 01 711C WOLL JAUE		
t @ 3381' w/330 sx		
cemented w/500 sx. cmt.		Broduction Company
Casing: 5 5/8" set @ 1500'		
	12US, KJ4E, NMPM Well	10,
6-18-73 3612 Yates Perfet 3497-3538	F Active 011 12-9-72	
Perf(a) and Wall Construction		
Completed m Depth Record of Comp	Range Syre Soudded	Sec., Twp
	Unit Ltr. Type ' nate	dil Number Location,

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Contractor: N/A				•	34			
	r N says							
Cable Tool Drilled	t.						•	 -
centenced w/ov sx*					-			
Erom 2950"-3562"							•	
			1. a					
3258 w/1150 sx								Production Company
	· · · · · · · · · · · · · · · · · · ·		-	•				
						UTT Mell	Sec. IS, IZOS, RJ4E, NEER	
Perfs: 3410-3516	Yates		3562	3-7-76	10-18-75	Producing		Mallen Federal #8X
Contractor: N/A				• • • •				
					 			•
3556 cemented w/100 sx.	· · · · ·	 		•				• • •
	· · · · · · · · · · · · · · · · · · ·			•				
24# SEC @ 3300 W/1150	-					-		rroduction Company
cmt, circ.	•							Operator: Wallen
Casing: 16" 32# cemented w/380 sx				10-7-75	•	Production)	Lea County, New Mexico	
	, 5 7 7 7			P&A		before	18, TZ	
	Vates		3556	Junked	d 7-16-75	P & A (Junked		Wallen Federal #8
Perf(s) and Well Construction	Zone(s)	PBTD	ΪD	Completed	Spudded		Sec., Ivy., Range	
		Depth	Dei	Date	Da	Туре	Location, Unit Ltr.	Coeraror
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## WALLEN FEDERAL #8 P&A IO-7-75



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Contractor: Roach & Shenned							
Cable Tool Drilled				•			
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@ 3110 by survey).							
nd ce							
198 CC-r 041	•						-
VIN SX CIEC.							
Casing: A S/AN 30# Lanual 4 to + A		- 		•	•		Production Company
. *				(Recompleted: 10-3-74)			
-3380			-				
3348,				1A 7-23-38	WETT	, (	
3420, 3442-3454, 3460-3478, .							
3350,	lates	0410				T205. R33E.	
) ) ) ) ) )	V	3678	354.3	10-31-57 4-1-58	Water	FSL	Teas Yates Unit 3-2
							•
Contractor: J. C. Clower				· · ·			
		i.		•			
Cable Tool Drilled	-		. • •				
	4 ·	•				-	
sx thru perf @ 1410.	- 14 - 14						<b>p</b> .
200 sx around a						•	Derator: Anadarko
Casing: 512" set @ 3325 cemented w/		<i>.</i> ,	3030	(converted To-24)			
1			DITD			County, New Mexico	
Open Hole: 3325-3535	Yates		3359	10-25-54 11-21-54	Water Thiotics	Sec. 13. T208 R33F NAPA	
rerr(8) and Well Construction	(E) BII07						Teas Vates Int 1-2
	7000/01	th Parn	TD			·, Ra	)perator
	•				TVDA	Location, Unit Ler.	Tell Name, Number
		<i>,</i> -	×				

	•							
Contractor: Cactus DrIg, Corp.	•			•			• •	
Re-entry by Rotary Tools								• • •
Orig. Cable Tool Drilled				:			·····	
w/880 sx. ]				· · ·				-
circ. 4½" 10.5# J-55 set @ 3511 with a D. V. tool @ 2811								· · ·
Casing: 8 5/8" 24# set @ 990' cemented w/525 sx cmt.	•				2117 2117			
84.	- - - -			രം	Re-c			Croduction Company
326-34, 373-91, 3478-	Yates	3506	3536		tion 11-13-58	B Water M Injection Well	990 FNL & 1650 FEL Unit B Sec. 13, T20S, R33E, NAPM	ι Ω
Contractor: Roach & Shepard		•••••						:
Cable Tool Drilled	22 12 12	· · ·						
to within 100' of , dumped 15 sx to ement to surface.			-	•				
• •	•							· · · · ·
3342-46, 3388-340(	• • • • • •	,- ,-						<b>`</b> P
	Yates		3499	2-25-58	8C-/-T TTO a	M Well	Sec. 13, T208, R33E, NHPM	tor: Anada
Peri(s) and Well Construction	Zone(s)	PBTD	GI	ded	2 	}	FNY & GOA FFT Hal-	leas Yates Unit 3-3
T MMI		th .	Denth	Date	Туре		.on, U	ell Name, Number

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See plugging diagram.		·	- - - -					
Contractor: Spartan Dr1g, Co.	•		· · ·	•	.*	•	м 	
Cable Tool Drilled		· · · · · · · · · · · · · · · · · · ·	: .			· .	1	
<u>سمعينية</u> ، , set e 31/0 cemented W/100 sx, 200 sx squeezed @ 1335-86.	an An Anna An An Anna An				•			
le: 3178 to 3325	•				F & A /-30			Production Company
Perfs: 1385-86 (squeeze perf)	Yates	3325	3338	3~29-51	-27-51	Producer (P & A)	13, T20S, R33E, NM	
						170	N	Teas Yates Unit 8-1
Contractor: J. C. Clower		· ·	· · · · · ·					
Cable Tool Drilled								
ellar. Cemei e.				÷ . ~				
Casing: 5% 14% & 15% J-55 set @ 3369 cemented w/620 sx				·				
3292 to 3328, 3346 to 3364		· · · · · · · · · · · · · · · · · · ·	3482		•	•		<u>Sperator:</u> Anadarko Production Company
Open Hole: 3369 to 3426	Yates	3426	3389 DDTD	830-57	7-21-57	Well	1980 FNL & 1980 FEL Unit G Sec. 13, T205, R33E, NMPM	Teas Yates Unit 4-1
Record of Completion: Perf(s) and Well Construction	Zone(s)	Depth PBTD	LD	Completed	Spudded	ədfr	·, 3a	ator
					3	Type	Location, Unit Ltr.	Well Name, Number

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Contractor: Thomas Drlg, Co.	3				-		
Capte Tool Drilled							
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885		- <b></b> :	-	· .			
SX. cmt circulated		-		•	for 8-1)		Production Company
			3410		(replacement		Derator: Anadarto
Open Hole: 3252 to 3410	Yates		3328 DDTD	5-21-56 (recompleted 10-27-77)	Active Oil Producer	Sec. 13, T20S, R33E, NMPM	
Perf(s) and Well Construction	(B) 2002	1101					2   ->
Record of Completion:	3	Depth		Spudded Completed	-7,7-	Sec., Twp., Range	perator
					Type	Location, Unit Ltr.	ell Name, Number
	a di seconda di second Seconda di seconda di se						



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Perfs:

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Squeeze perf from 1385-86.

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Rutary Tool Drilled										- ~
/"@13813'w/1350 sxs										
1/8" @ 9000' w/2620 s										
(18/1 141		• • ·							÷	
3011 @ 1100	۔ بر			•		producing)	њ		•	
13, 9,422-24, 9,430-34, 9,442-50, 9,454-57.						shut-in, Bone				
Bone Springs 9,408-14, 9,416-	Morrow			•		(Morrow currently	•	• • • •		
د ا	Spring	1000				(Dual)	14, T20S, R33E,	Sec.	יי אדרס	Derator
		13800	14948	12-6-62 (BS)	4-30-62	Gas Producer	FNL & 1980	#1 1	Mahaffey-Fed. ARC	Mahafi
Contractor: J. C. Clower		- <b></b>								-
Cable Tool Drilled						recompletion				
								,	ceros company	
	Rivers			58 re-entered	(P & A 12-58 11-16-81)	11-16-81 11-16-81				perator:
10-3389	Seven					P & A then	14, T20S, R33E, NMPM	Se	•	
		1180	3416	1-22-54	12-24-53	Oil Producer	& 590 FWL, Unit E	5-4 23	Yates Unit 5-	leas y
Contractor: J. C. Clover								•••		,
Cable Tool Drilled			з,	•						
cement to surface to P & A.		<b>-</b>							•	
@ 1500. Pulled tbg and filled with								Υ λ Ο	ction Company	reduction
Casing: 54" set @ 3250' w/50 sacks	Rivers	- <b> - - - - - - - - -</b>	<i>`</i>					- معرف ال	TO1.	ר. ס גע
CDEC-2/2/20	Seven			2-21-75)	(P & A 2-2)	ዎ & A	County, New Mexico	Lea		
	V 2 + 2 0	3266	3388	9-30-53	n 8-26-53	011 Production	FNL & 660 FAL, Unit D,	5-1 660	Yates Unit 5-	Ceas )
Record of Completion: Perf(s) and Well C	Zone(s)	Depth PBTD	TD	Date Completed	Spudded	адбт	- Ra			Cherator
					,		Location, Unit Ltr.		Name, Number	Lell N
				S UNIT 2-3	LUND MALLS					

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1		- <b></b>				n a 1070 au			<b>.</b>	L.
Contractor N/A				•						
Rotary Tool Drilled	-		-			an na 192 (* 1 5 5 5 5 5 4				
x.Jerryon co8 & 3033						ne na gon mare p		:		-
300 sx.4½" @ 3426 cemented w/523 sx. 2" Salta lined intertion the a most					<u> </u>	M611				Production
8 5/8" @ 950 camental u/				(Converted 5-3-72)	(Conv	Injection		- 	cor: Anadarko	Opera
244-47, 3252-56	Yates	3418	3428	10-28-65	29-1-8	NMPM Water	T20S, R33E,	. 14		
Contractor: Cactus Drlg. Co.	1				>	>     		124 066	Yates 6-1	-Jeas
Drilled	-		•							
				•						
-				-	•					
w/20 sx 51" liner w/top @ 2943				•				- <b>-</b> -	crion company	21044
1420 cer					۰ 				toz: Anadarko	Operator:
Perfs: 3137-3250	Yates Seven	3265	3385	4 -CT-6	er /-9-/4	Oil Producer	T205, R33	. 14		
Contractor: J. C. Clower				ŝ		A > + 4 4 9	& 990 FWI. 11n4+ n	111E 066	Yates Unit 5-5	Peas
	•	-						19. anna 1997.	×	
at 3286. Cool Drillad					<u> </u>					
aho 7	Rivers		10 3392	(vecombraced 8-30-30)	1260			- · · •	<u>cor:</u> Anadarko ction Company	Operator: Production
			deepened			Uil Producer	LAVO, KOJE, NEEM	, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,		. <b>.</b> .
		3370	3278	-53 10-29-53	10-4-53	C Active	& 1650 FWL, Unit	560 FNL	Yates Unit 5-2	Teas
Record of Completion; Perf(s) and Well Construction	Zone	PBTD	ID	Spudded Completed			lwp., Range	sec., Iwp.,		
	n Solo Solo Solo Solo Solo Solo Solo Sol	oth	Depth	Date	<b>R</b>	Туре	on, Unit Ltr.	Location,	Nume, Number	1.190

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 	Contractor: N/a	•	 , '					•
-	Cable Tool Drilled	· · · · · · · · · · · · · · · · · · ·				_		× •
	around shoe and 150 sxs @ 1368	······································			•			condecton company
			- <b></b>	3394	•		•	Operator: Anadarko
	Open Hole: 3202-24	•		מזסמ	(recompleted 5-6-77)		PM	а. - С. - С.
•3	Perfs: 3228-3394	Yates		3330	2-13-54 3-18-54	Active Oil Producer	1650 FNL & 2310 FEL, Unit G, Sec. 14, T20S, R33E,	eas lates unit 10-2
	Contractor: J. C. Clower	· · · · · · · · · · · · · · · · · · ·			•		•	
••• •• ••	Cable Tool Drilled	· · · ·						
	Casing: 7" @ 3290 w/420 exe, 2" Salta lined tbg @ 3204	• •						
	Open Hole: 3294-3338	Rivers		-	(converted 3-6-/2)			Derator: Anadarko Production Company:
	Perfs: 3267-71, 3275-86	Yates Seven	38 8	BEEE			• 14, T20S, R33E, NMP	-
•	Contractor: J. C. Clower			3	3-00-E/	N.Water	990 FSL & 2310 FWL, Unit N	Teas Yates Unit 9-1
	Cable Too: Dzilled							
•								
	Casing: 7" @ 3260 cemented w/100 sx + 310 sxs @ 1000, 2" tbg @							
	Opem Hole: 3280-3420			3420	•			roduction Company
		Seven Rivers		מזממ			NMPM	
9		Yates		3324	2-26-54 3-10-54 (Recompleted June 1073)	Active Oil Producer	2310 FSL & 1960 FWL, Unit K, Sec. 14, T20S, R33E, -	.ea8 Yates Unit 7-1
At lon	+	Zone(s)	PBTD	GI	Spudded Completed			
1	, Record of Computerion		Depth	Del	Date	Туре	Location, Unit Ltr. Sec., Twp., Range	persion, Number

Wall       (converted 5-6-72)         A. Water A. Water Mail       6-25-53 Indication       8-10-53 8-10-53       3342       -       Casing Treb Builting Converted 5-3-72)         Mail       6-25-53 Wall       8-10-53       3342       -       Vates       Contractor: J. C. Clower Converted 5-3-72)         A. Active Wall       6-25-54 (Converted 5-3-72)       3455       Vates       Open Hole: 3293-3342         It       Active (P & A 12-31-54) (Re-epud 6-5-74) Wall       3455       Vates       Casing: M @ 2393 W/350 pr cmr. cite: 2 3/8" Siles lined tbg @ 3195.         It       Creating: in 0 3/4" @ 313 W/155 pr. cite: 2 3/8" Siles lined tbg @ 3195.       J455         Vates       Casing: in 0 3/4" @ 513 W/155 pr. cite: 2 3/8" Siles lined tbg @ 3195.         It       Perfe: 3212-320, 3316-3334         Perfe: 3212-320, 3316-3334       Perfe: 3212-320, 3316-3334					•			-
<ul> <li>Well (converted 5-6-72)</li> <li>A. Water A., Water 6-22-53 8-10-53 8-10-53 (Converted 5-3-72)</li> <li>Mell Ind Converted 5-3-72)</li> <li>Mell Conv</li></ul>					-			
<pre>Wall (converted 5-6-72) A water A, water M Lingetian 6-25-53 8-10-53 3342 - Nuclive for automatic to be a state to automatic for the set of automatic indic to be a state to automatic indic to a to automatic indic to a to automatic indic to automatic indic to automatic contractor: J. C. Clower Contractor: J. C. Clower Contractor. J. C. Clow</pre>			-					. •
<pre>Wall (converted 5-6-72) (converted 5-6-72) A. Water (G-25-53 G-10-53 G-10-53 G-10-53 G-10-53 G-10-53 G-10-53 G-10-53 G-10-53 Indicating (G-25-73) Well Active (Converted 5-5-74) Well (Converted 5-5-74) (Converted 5-5-74) (Re-spud 6-5-74) (Re-spud 6-5-74) (Incomplete 4-22-75) (Inco</pre>						-		
<pre>Wall (converted 5-6-72) Water A. Water A. Water A. Water Mildection Converted 5-3-72) Well Converted 5-3-72) If Active Converted 5-3-73 If</pre>						.1		
<pre>Wall (converted 5-6-72) Wall (converted 5-6-72) A. Water A. W</pre>		•	;					
<pre>Well (converted 5-6-72) Well (converted 5-6-72) (converted 5-6-72) (converted 5-6-72) (converted 5-3-72) Well (converted 5-3-72) (converted 5</pre>								
<pre>Wall (converted 5-6-72) Wall (converted 5-6-72) A. Water A. Wall Index to surfaces, 2" Sits Index to g g 3145. Cable Tool Drilled Contractor: J. C. Clower Contractor: J. C. J. C. Clower Contractor: J. C. J. C. Clower Contractor: J. C. Cl</pre>					-			
<pre>Well (converted 5-6-72) Well (converted 5-6-72) A, Water A, W</pre>	stoots, te-succted						<b>.</b>	
<pre>Well (converted 5-6-72) Well (converted 5-6-72) A, Water A, Water A, Water Minjection Higherton Holl: Gonverted 5-3-72) Hell Converted 5-3-72) Hell (Converted 5-3-74) He</pre>		•						
<pre>Mall (converted 5-6-72) Mall (converted 5-6-72) A, Water A, Water Mall Trjection Converted 5-3 Mall (Converted 5-3-72) Mall Inde the @ 3145 Contractor: J. C. Clower C</pre>	3212-3280, 3316-3334	· · · ·						Production Company
Mall (converted 5-6-72) A, Water A, Water Mull (converted 5-6-72) A, Water Mull (converted 5-33 8-10-53 3342 - Mull (converted 5-3-72) Mull (c					•		4 m	perator: Anadarko
Well       (converted 5-6-72)       Casing: 54" @ 3215 v/435 ar cmr. cnt. cire to surface, 2" site inned tbg @ 3145.         A, Water PM Injection Well       6-25-53 (Converted 5-3-72)       8-10-53 (Converted 5-3-72)       3342       Cable Tool Drilled Contractor: J. C. Clower (Converted 5-3-72)         Yates       Open Hole: 3293-3342       Casing: 54" @ 3293 v/350 ar cmt. circ. 2 3/8" Salta lined tbg @ 3195.         it       Active       (P & A 12-31-54)       3455	<u>ung:</u> 10 3/4" @ 513 W/456 ex, circ. 4k" @ 3455 W/765 ex, circ.		•		e-spud 6-5 ecomplete	Producing Well	NYTEM	
Well (converted 5-6-72) Well (converted 5-6-72) Water 6-25-53 8-10-53 3342 - Yates Open Hole: 3293-3342 Well (Converted 5-3-72) Well Salta Lined thg @ 3195.			· · · ·	3455	& A	Active	<b>N</b> 3	Teas Yates Unit 14-2
Well (converted 5-6-72) Well (converted 5-6-72) Water (converted 5-3-72) Well (converted 5-3-					•			
Well (converted 5-6-72) Well (converted 5-6-72) Water 6-25-53 8-10-53 3342 - Yates Open Hole: 3293-3342 Well (converted 5-3-72) Well Seite 1 ined tbg @ 3145. Cable Tool Drilled Contractor: J. C. Clower Contractor: J. C. Clower Casing: 54" @ 3293 w/350 ex cmt. circ. 2 3/8" Salta lined tbg @ 3195.					-			
Well       (converted 5-6-72)         Well       (converted 5-6-72)         Gint. circ to surface, 2" Stita         Cont. circ to surface, 2" Stita         Cont. circ to surface, 2" Stita         Cable Tool Drilled         Contractor:       J. C. Clower         Well         Well         Well         Converted 5-3-72)         Well         Casing:         Signature         Signature         Signature         Signature         Signature         Signature <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>-</th></t<>								-
Well (converted 5-6-72) Water 6-25-53 8-10-53 3342 - Yates Open Hole: 3293-3342	@ 3293 v/350 sx cmt				•			roduction Company
Well (converted 5-6-72) Casing: 54" @ 3215 w/435 sx cmt. Cant. circ to surface, 2" Stita Lined tbg @ 3145. Cable Tool Drillad Contractor: J. C. Clower	3223-342	14683		1	ted 5-	Injection	Sec. 15, T2OS, R33E, NMPM	
(converted 5-6-72) (converted 5-6-72) Casing: 54" @ 3215 w/435 sx cmt. Cant. circ to surface, 2" Stita Cable Tool Drillad Contractor: J. C. Cloner		4	1	67tt		Water	E C	Teas Yates Unit 12-1
(converted 5-6-72) Casing: 54" @ 3215 w/435 sx cmt. Cmt. circ to surface, 2" Seita Lined tbg @ 3145. Cable Tool Drilled	J. C. Cloner							
(converted 5-6-72) Casing: 54" @ 3215 w/435 sx cmt. Cant. circ to surface, 2" Stitu lined tbg @ 3145.								
(converted 5-6-72) Casing: 54" @ 3215 w/435 sx cmc.	@ 3145.							
CONVERTER STATES I STATES	4" @ 3215 w/435 sx cut. to surface, 2" Selta	• :						roduction Company
		-			(converted 5-6-77)	Well Well		
B Water 12-19-54 1-28-55 3319 3288 Yates Open Hole: 3715-3288	Open Hole: 37/15-3288	Yates	3288	3319	4		990 FNL & 2310 FEL, Unit B Sec. 14. T205, R33F, NMPM	Teas Yates Unit 11-1
Spudded Completed TD PBTD Zone(s) Record of Completion (a)	Record of Camplestony	Zone(s)	PBTD	TD			i Sec., Tup., Range	perator
				2	Date	Туре	Location, Unit Ltr.	ell Name, Number

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JUNICIACEOF: W ATTON DELS. Co.							······	
		· · · · · · · · · · · · · · · · · · ·			 - -	•	•	
inted w/55 sx around shoe. TOC			-					
10.5# J and K-55 set @ 3426		• ••• •*•						
round shoet. Cement circ		· <b></b>						· · · · ·
cemented w/		- <b></b>					-	
ind shoe. Cement ates 71 974								
set @ 1334 and comental w/620 av								
	•					•••		
3222 to 3252, 3258-3264,	Yates		3426	4-18-82	78011	Intection	14, T20S, R33E,	
							FNI & 1405 FRT Inte	Teas Yates Unit 10-3
Contractor: W arton Drlg. Co.		•	•		-			
				•				
Rotary Tool Drilled								
0, 10 - 00, -								
108-11, 3/24-27, 3746-49,				•				
: 3660-63, 3674-81,	•	• • • • •						
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( 3830 W/top		· ·		•			• • • • • • • • • • • • • • • • • • •	
circ 200 ex to pit. 54" 15.50							· · · · · · · · · · · · · · · · · · ·	ioduction company
set @ 3100". Cmtad w/690 sx					-	# * .en		
200 sx to pit. 7 5/8" 26.4/						weil		•
10 3/4" 40.57 St 6 C, R-3	Seven		UC BC	10-10-0		Water Supply	14, T20S, Ŕ33E,	
				2 2 1 0 1	1-1-81	Active	FNL & LI	Teas Yates Unit WSW #1
	Zone(s)	Depch PBTD	TD	Completed	Spudded	-16-	- Ra	)perator
			,			Type	Location, Unit Ltr.	Sell Name, Number

TEAS YATES UNIT 5-3 PROPOSED INJECTION WELL



AND SAME

**EQUELSE** 

P8A: Dec ,1958 Re-entered 11-16-81

Well Nome & Number:

Teos Yotes Unit 5-4 (APC)





Perfs: None





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	,					
<b>6</b>		-	· · · · · · · · · · · · · · · · · · ·			
Casinz: 10 3/4" set @ 510" w/ 635 sx cement. 44 set @ 3517 w/1260 sxs (150 circ to pit) 2 3/3" salta lined tbg @ 3191.			7-12-74 converted and completed 2-38-75)			5
Perfs: 3261-76, 3282-99, 3319- 25, 3334-43, 3348-58, 3380-86, 3392-3400.	3523 Yates	3535	6-18-51 (P & A 6-18-51) (re-entered	Water Injection Well	Lee Co. New Mexico	tor: Anadarko
3410. Cable Tool Drilled. Contractor: Thomas Drig. 30.	•				<b>5</b> 3 4 5 5 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7	
Casing: 8 5/8" set @ 1500' w/ 450 sx circulated cmt. 5½" set @ 3252 w/175 sx. 2 7/8" tbg @ 3291. 4 3/4" open hole 3252 to						uction Company
le completion:	Yates	3328 deepened to	5-21-56 (recompleted 10-27-77)	active (replacement for 8-1)	· · · · · · · · · · · · · · · · · · ·	
Casing: 7" set @ 3178 cemented w/100 sx, 200 sx squeezed @ 1385- 1386. Cable Tool Drilled. Contractor: Spartan Drig. Co.					1 1 1 1	Kuces Unic 8-2
le co			(P & A 7-56)			uction Company
Perfs: 1385-86 (squeezed perfs)	3325 Yates	33 33 8		011 Producer (P & A)	1980 ENL & 660 EWL, Unit E, Sec. 13, T20S, R33E, NAMM, Lea Co. New Mexico	Yaces Unic 8-1
Record of Completion: Perf(s) and Well Construction	h ·: PBTD · Zone(s)	Depth	Date Spudded Completed	Туре	Sec., Iwp., Range	

				•				
• • • • • • • • • • • • • • • • • • •		•	·			-		
		2		••			•	· · · · · · · · · · · · · · · · · · ·
	Casing: 8 5/8" 32# Lapweld set @ 1001' and cemented with 225 sx (100 sx circ to pit). 5½" 14# J-55 set @ 3491 and cemented with 75 sx (top @ 3110 by survey). Cable Tool Drilled. Contractor: Roach and Shepard	•						
	Perfs: 3335-3350, 3361-3366, 3386-3420, 3442-3454, 3460- 3478, 3318-3348, 3356-3362, 3368-3372, 3376-3380.	Yates	3478	3543	10-31-57 4-1-58 (TA 9-25-58) (recompleted 10-3-74)	Water 10- Injection Active	13, T2OS, R33E, NMPM, Co. New Mexico	Anadarko Company
and and a second se	Casing: 5½" 15# set @ 3209 cemented w/150 sx arcund shoe and 300 sx thru D. V. Tool @ approximately 1400. Cable Tool Drilled.		· · · · · · · · · · · · · · · · · · ·	to 3341 then to 3428			174 × 42	tator: Anadarko duction Company S Yates Unit 3-2
2 - 5 - <u></u>		Yates		3209 drilled deeper	6-28-52 8-15-52	Oil Producer 6-2 Active	1650 FNL & 330 FEL, Unit H, Sec. 14, T205, R33E, NMPH, Lea Co. New Mexico	Ünit 10-1
्रिये प्रसंध त्रि स्ट्राइस्टिस्ट्रि र	Casing: 5'3" 14# set @ 3209 cemented w/150 sx around shoe and 300 sx thru D. V. Tool @ 1397 (sire to surface). Cable Tool finding.			to 3350 then to 3452	· · · · · · · · · · · · · · · · · · ·			Luccion Company
	Open Hole completion 3209 to 3452.	Yates		3209 drilled deeper	2-27-52 4-14-52	Oil Producer 2-2 Acitve 2-2	1980 FNL & 1980 FNL, Unit F Sec. 13, T208, R33E, NMPM, Les Co. New Mexico	s Yaces Unit 2-1
		Zone (a)	Depth PBTD	TD De	Date Spudded Completed	Type S	Location, Unit Ltr. Sec., Twp., Range	,

Linne, Number	Lecation, Unit Liz.	Туре						
· Varae llast 2-2	c., iwp., Kange		Spudded Co	Completed	TD	PBTD	· Zone(s)	Record of Completion; Perf(s) and Well Construction
	Sec. 13, T2OS, R335, NAPA, Lea Co. New Mexico	Water Injection	10-25-54 11-21-5 (converted:	4	3359 DDTD		Yates	
rator: Anadarko				10-26-74)	535		÷.,	- <b>H</b>
duction Company								@ 1410. 1 Drilled.
3 Yures Unit 4-1	1980 FNL & 1980 FEL, Unit G Sec. 13, T208, R33E, NYPM, Lea Co. New Mexico	Oil Producer Active	7-21-57 8-	8-30-57 3 D	3389 I	PBTD 3426	Yates	63
ator: Anadarko	(			3		- -		Perfs: 3292 to 3328 and 3346 to 3364.
2	· · · · ·					• • •		
								w/6 thr Led.
s Yutes Unit 10-3	2265 FNL & 1425 FEL, Unit G Sec. 14, T20S, R33E, NMPM, Lea Co. New Mexico	Water Injection	1-10-82 4-	4-18-82 3	3426	•	Yates	Perfs: 3222 to 3252, 3258 to 3264, 3270 to 3310, 3330 to 3350.
racur: Anadarko duetion Company								Casing: 9 5/8" 36# K-55 ST & C set @ 1334 and cemented w/620 sx
•								citc. 7 cemented
			• .					S set @ 3
۰ ۱ ۱	•		•	•			.9 -	@ 2770 by
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Perfs:

Squeeze perf from 1385-86

13-2

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			╞					
Contractor: J. C. Clower	10							•
Cable Tool Drilled		<b>.</b>					•	
J/J SX around shoe.					-		•	
						<b>1</b>	· · ·	•
sx thru perf @ 1000' cmt.	10		ayaayaan da waxaa ahayaa ah			lnjection)	. <b>.</b> .	· p.
7"	<b>0</b>	 			<u>0</u>	(will be converted to	S. F.	erator: Anadarko
3210-35, 3265-	Yates :	3377	3397	-53 12-16-53	11-12-53	Active Oil Producing Well	1980 FNL & 1650 FWL Unit F. Sec. 14, T20S, R33E,	s Yates Unit 5-3
Contractor: J. C. Clower		•						•
Cable Tool Drilled				d				
2" cbg @ 3286.	۶			<b>-</b>				
9 324( around	Kivers		3392	.         		an a		oduction Company
	•		deepened	mpleted 8-30-56)	(Recompl	r roqucer		
(man Hola · 3938_3303	Yates	3370	3278	-53 10-29-53	10-4-53	Unit C Active 011	660 FNL & 1650 FWL, Unit (	is Yates Unit 5-2
Contractor: J. C. Clower	10			•				
Cable Tool Drilled				• •				•••
	2.5						· · · · ·	•
@ 1500. P								Succion company
Lasing: 5% set @ 3250' w/5C sacks								
	•			A 2-21-75)	(P & A	6	County, N	
al de la composition de la composition de la composition de la composition de	Yates	3266	3388	-53 9-30-53	on 8-26-53	Oil Production	Sec. 14, T2OS, R33E, MAPM +	s faces cuit 3-1 .
Rerf(s) and We I Construction	Zone(s)	TD PBTD .		Spudded Completed	Spu	· · · · · · · · · · · · · · · · · · ·	•• ****	
		Depth		Date		Туре		racoret
		OF ENGLOSED BIN	1000					I lines Number

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<u>، (</u>		•				•		~	
	cire. 2 3/8" Salta 1					~			Souction Company
	Casing: 51' @ 3293 w/350 sx cmt.		-		5-3-72)	(Converted 5-3-72)	хстт хстт		
	745C-C476		<b></b>		<b>k</b> 1		TUJECTION	AU, IEVU, NUUE, NPER	
	с 2 2 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3	Yates	1	3342	8-10-53	6-25-53	Water		as lates unit 12-1
	-				-				
بەللار	Contractor: Cactus Dr1g Co.					•			
	Rotary Tool Drilled	<b>,                                    </b>							
-				•	• 44• •			_	
	<b>a</b>		~ ~ ~			•			
	00 @ 294		~				*		
	7" @ 3085 w/420 sx 5%"								
	w/560 sx (cfroilaroi)								÷)
	0. 5/8" @ 11.20	Rívers					•		eratort Anadarko
	refis: 3137-3250	Seven					Producer	sec. 14, 1205, R33E, NMPM Producer	-
-			3375	3385	9-15-74	7-9-74	Active 011	1 066 3 TNE	as faces onte D-D
	Contractor: J. C. Clower	1							
	Cable Tool Drilled								
							waiting on		
- <del>.</del>	450						Currently		Junction Company
	Casing: 7" set @ 3370 comental/	Rivers			58 re-entered	(P & A 12-58	entered 11-16-		
	Open Hole: 3370-3389	rates	2005	L 4 F C			P & A then re-	14, TZUS, R33E, MMPM	
-			3000	7176	1-22-54	12-24-53	Unit E'Oil Producer	6 990 EWL,	us laces unit 5-4
<u> </u>		Zone(a)	PBTD	10	Completed	spuaged			
	Record of Completion:		Depth	De	rt P	Date	Туре	Sec., Twp., Range	acor
									Li Hame, Number

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		· • • • • • • • • • • • • • • • • • • •					
Plugged w				•			
							<b>.</b>
				Recompleted 9-24-73			
WICH JUV SX, CHT. CITC. CO							Concernant company
8/ H-40 set @ 15				Respud 9-6-73		· · · ·	oduction Company
		Surface		95-01-6	Subbly Mell		
Open Hole: Plugged back to Surface	Seven (	Plugged to	3700	3-15-56 P & A	VD & A	Sec. 10, T20S, R33E, NAPA	
				• •		1007 E - MER 1- 100	us Yates Unit 14-1
Contractor: Cactus Drlg. Co.							
CADIE LOOL DELLEG				•			
continous		· · · · · · · · · · · · · · · · · · ·			-	· · ·	
to bottom with one do not of the dot of the		· · · · · · · · · · · ·		-			-
to 3487 cemer						•	
perf @ 849'.4"		<b></b>					
operations circ 565 sx				•		•	
sx around shoe and							
							oduction Company
sut1ace,		Surface		(Converted to WIW	tion Well		
Open Hole: Plugged back to	Yates	Plugged	3507	12-5-53 1-10-55	P & A Water	Sec. 11, T20S, R33E, NAPA	
11 Construction	Zone(a)	PBTD	uT UT				as Yates Unit 19-1
Record of Completion;		Depth	J De	Date Soudded Completed	Туре	Sec., Twp., Range	utor
						LOCATION TOLAT	L'I Hume, Number

					<b>:</b>	1997 1997 1997 1997 1997 1997 1997 1997			
مریک فرمند مریک			- <b></b>			•	-		
		9 		•					
	Contractor: Warton Drlg. Co.				•				
	Rotary Tool Drilled	-							
	Peris: 3660-63, 3674-81, 3696- 3700, 3708-11, 3724-27, 3746-49, 3758-62.			• •	•	•			-7 -
	20 8X.							-	
en di	201 - Um WX 150					•		· · ·	
	sec.e. Jrun . Cured w/690				•				
	7 5/8" 26.4 <i>#</i> N		<b></b>						erator: Anadarko oduction Company
	0.5# s	Seven Rivers		3830 .	8-31-81	3-31-81	Active Water Supply Well	-330 FWL, Unit F, Sec. 14, T20S, R33E, NYEM	
	Rotary Tool Drilled				±2		•		
	5/8" @ 9000' w/2620 t @ 13813' w/1350 sxs								
	Casing: 20" @ 1400' w/1900 sxs 13 3/8" @ 3100' w/3500 sxs				•		F-00002118/		
					(M) 20-75-27		shut-in, Bone Springs		
-	129, 13526-5 543, Bone Sp	Springs, Morrow			19-31-60	-	(Morrow currently		erator: Arco
	2, 1:	Bone	13800	14948	12-6-62	4-30-62	(Dual)	660 FNL & 1980 FWL, Unit C Gas Sec. 14, T20S, R33E, MMPM (Du	Halley-red. ARC #1
<u>9</u> •	Record of Complecton: Perf(8) and Well Construction	Zone(a)	Depth Depth	TD	Completed	Spudded		., Twp., Ra	
				,			Туре	<u>п</u>	c, Number







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Per fs:

None

MONAHANS, TEXAS 79788	Martin Water Laborato	nes. nic		709 W AIDLAND,
PHONE 943-3234 OR 863-1040	RESULT OF WATER A	NALYSES		PHON
		HORATORY NO	108159	
to: Mr. Mark Fesulre				
P.O. Rox 2497, Midland, Texas	RE	SULTS REPORTE	0 10-9-81	
COMPANY Auadarko Production	Coursens	Teac Vates	151+	
		ACOS TOLCO	UTAL	
FIELD OR POOL SURVEY		s	TATE NM	
		<u>a</u> (	STATE	
SOURCE OF SAMPLE AND DATE TAKEN NO. 1 Rew water - taken fro				
NO. 2				
NO. 3	•			
NO. 4	-			
REMARKS:S	amples taken by Greg	Ogden, Mart	In Water La	bs., 1
and the second	MICAL AND PHYSICAL P		وريادي المحدية المحدين	
	NO. 1	NO. 2	NO. 3	
Specific Gravity at 60° F.	1.0020		1	
pH When Sampled			1440	
pH When Received			1	
Bicarbonate as HCO3	412		1	
Supersaturation as CaCO3			1	
Undersaturation as CaCO3			<u></u>	
Total Hardness as CaCO3	60		1	
Calcium as Ca	10	······································	1	
Magnesium as Mg		*******	1	-
Sodium and/or Potassium	401		1	
Sulfate as SO4	274		1	
Chloride as Cl	220			
Iron as Fe	0.5			
Barium as BA				
Furbidity, Electric		·		
Color as Pt				
Total Solids, Calculated	1,326			
Temperature °F.				_
Carbon Dioxide, Calculated				
Dissolved Cxygen, Winkler				
Hydrogen Sulfide			·	
Resistivity, ohms/m at 77° F.				<b>_</b>
Suspended Oil				
Filtrable Solids as mg/1				
Volume Filtered, ml				
				<del></del>
				<u> </u>
	Results Reported As Milligrams	Per Liter		<u> </u>

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HAR BUS

ALCONT STREET

BEFORE EXAMINER MUTTER OIL CONSERVATION DIVISION Avaidadho EXHIBIT NO. 5 CASE NO. 7677

Dockets Nos. 31-82 and 32-82 are tentatively set for September 29 and October 13, 1982. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING WEDNESDAY-SEPTLYBER 15, 1982

9 A.M. - MORGAN HALL, STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO

The following cases will be heard before Daniel S. Nutter, Examiner, or Richard L. Stamets Alternate Examiner:

- ALLOWABLE: (1) Consideration of the allowable production of gas for October, 1982, from fifteen prorated pools in Lea, Eddy, and Chaves Counties, New Mexico.
  - (2) Consideration of the allowable production of gas for October, 1982, from four prorated pools in San Juan, Rio Arriba, and Sandoval Counties, New Mexico.
- CASE 7638: (Continued and Readvertised)

In the matter of the hearing called by the Oil Conservation Division on its own motion to permit Cibola Energy Corporation, American Employers Insurance Company and all other interested parties to appear and show cause why the Simms Ranch Well No. 1, located in Uni<sup>7</sup> N, Section 9, the Clyde Berlier Well No. 1, located in Unit K and the Clyde Berlier Well No. 2, located in Unit F, both in Section 21, the Mora Ranch Well No. 3 located in Unit M and the Mora Ranch Well No. 4, located in Unit M, both in Section 5, all in Township 21 North, Range 21 East, Mora County, should not be plugged and abandoned in accordance with a Division-approved plugging program.

ASE 7637: (Continued from August 18, 1982, Examiner Hearing)

In the matter of the hearing called by the Oil Conservation Division on its own motion to permit R.A.F. Enterprises, Fireman's Fund Insurance Company and all other interested parties to appear and show cause why the Shaw Well No. 1, located in Unit M, Section 18, Township 4 North, Range 8 East, Torrance County, should not be plugged and abandoned in accordance with a Division-approved plugging program.

CASE 7635: (Continued from September 1, 1932, Examiner Hearing)

In the matter of the hearing called by the Oil Conservation Division on its own motion to permit CO2-In-Action, Travelers Indemnity and all other interested parties to appear and show cause why the Trigg Well No. 3 located in Unit J, Section 25, Township 15 North, Range 28 East, San Miguel County, should not be plugged and abandoned in accordance with a Division-approved plugging program.

CASE 7636: (Continued from September 1, 1982, Examiner Hearing)

In the matter of the hearing called by the Oil Conservation Division on its own motion to permit CO<sub>2</sub>-In-Action, Travelers Indemnity and all other interested parties to appear and show cause why the Amistad No. 1 located in Unit E of Section 18, and the Amistad No. 2 located in Unit D of Section 7, both in Township 19 North, R nge 36 East, Union County, should not be plugged and abandoned in accordance with a Division-approved plugging program.

- CASE 7673: Application of Yates Petroleum Corporation for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the Almost Texas Unit Area, comprising 3,840 acres, more or less, of State and Federal lands in Township 26 South, Range 31 East.
- CASE 7664: (Continued from September 1, 1982, Examiner Hearing)

Application of Tates Petroleum Corporation for a unit agreement, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks approval for the Little Cuevo Unit Area, comprising 13,407 acres, more or less, of State and Fee lands in Township 17 South, Range 18 East.

- CASE 7674: Application of Trican Energy, Inc. for a unit agreement, Les County, New Mexico. Applicant, in the above-styled cause, seeks approval for the Javalina Basin Unit Area, comprising 3,840 acres, more or less, of State and Federal lands in Township 25 South, Lange 34 East.
- CASE 7675: Application of Texaco Inc. for downhole commingling, sa County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Justis Blinebry, Justis Tubb-Drinkard, and Justis Devonian production in the wellbore of its G. L. Erwin "A" Federal Well No. 2 located in Unit K, Section 35, Township 24 South, Range 37 East.

- CASE 7676: Application of Tenneco Oil Company for salt water disposal, Les County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced sult water into the Delaware formation in the perforated interval from 4970 feet to 4982 feet in its Jennings Fed. Well No. 3 located In Unit B of Section 14, Township 74 South, Range 32 East.
- CASE 677: Application of Anadarko Production Company for a waterflood expansion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to expand its Teas Yates Waterflood Project by converting two wells located in Unit F of Sections 13 and 14, Township 27 South, Range 33 East and drilling three new injection wells at unorthodex locations in Units M of Section 11 and Unit L of Section 13, Township 20 South, Range 33 East, and Unit E of Section 18, Township 20 South, Range 34 East.
- CASE 7678: Application of Phillips Petroleus Company for a pressure maintenance project, Les County, New Mexico. Applicant in the above-styled cause, seeks authority to institute a pressure maintenance project in the Vacuum Grayburg-San Andres Pool by the injection of water into the Grayburg San Andres formation through eight injection wells to be drilled at unorthodox locations in Section 35, Township 17 South, Range 34 East, as follows: 2630 feet from the South line and 1330 feet from the West line; 2630 feet from the South and West lines; 2630 feet from the South line and 1339 feet from the East line; 1310 feet from the South line and 1330 feet from the West line; 1310 feet from the South line and 10 feet from the Fast line; 10 fect from the South line and 1310 fect from the East line; 1330 feet from the North line and 1310 feet from the West line; and 1330 feet from the North line and 10 feet from the West line. Applicant also proposes two production wells at unorthodox locations in said Section 35 as follows: 1310 fest from the South line and 2630 fest from the East line and 1310 fest from the South and East lines.
- CASE 7630: (Continued from September 1, 1982, Examiner Hearing This Case will be Dismissed)

Application of Ralph Nix for an oil treating plant permit, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority for the construction and operation of an oil treating plant for the purpose of treating and reclaiming sediment oil at a site in the SW/4 NE/4 of Section 18, Township 19 South, Range 26 East.

CASE 7671: (Continued from September 1, 1982, Examiner Hearing)

Application of Texas Eastern Developments, Inc. for an exception to Rule 307, San Juan County, New Mexico. Applicant in the above-styled cause, seeks an exception to Rule 307 of the Division Rules and Regulations to permit it to draw a vacuum on the Shiprock Gallup Oil Pool reservoir through 16 wells in Sections 16 and 17, Township 29 North, Range 18 West. Applicant further seeks an administrative procedure whereby it could extend the proposed vacuum system to include additional wells in the same reservoir.

- CASE 7679: Application of C & K Petroleum, Inc. for the amendment of Order No. R-4857-A and for compulsory pooling, Les County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Division Order No. 2-4857-A to provide that the lands pooled by soid order shall be the W/2 SE/4 of Section 27, Township 16 South, Range 37 East, dedicated to its Shipp 27 Well No. 2 located in Unit 0 in said Section 27. Applicant further seeks an order pooling all mineral interests in the Pennsylvanian formation underlying the E/2 SE/4 of the aforesaid Section 27, to be dedicated to a well to be drilled in Unit P of said Section 27. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well and a charge for risk involved in drilling said well.
- CASE 7680: Application of Unichem International, Inc. for an exception to Order No. R-3221, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Order No. R-3221 to permit the commercial disposal of produced brine into several unlined surface pits located in Section 11, Township 23 South, Range 29 East.

CASE 7681: Application of Cibola Energy Corporation for an unorthodox gas well location, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of an Ordovician gas well to be drilled 330 feet from the North line and 990 feet from the East line of Section 13, Township 9 South, Range 27 East, the E/2 of said Section 13 to be dedicated to the well.

- CASE 7682: Application of Cibola Energy Corporation for an unorthodox gas well location, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of a Mississippian gas well drilled 330 feet from the North line and 330 feet from the West line of Section 34, Township 11 South, Range 28 East, the W/2 of said Section 34 to be dedicated to the well.
- CASE 7683: Application of S & I Oil Company for compulsory pooling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Gallup formation underlying the E/2 SE/4 of Section 12, Township 29 North, Range 15 West, to be dedicated to a well drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well and a charge for risk involved in drilling said well.
- CASE 7684: Application of R. E. Lauritsen for compulsory pooling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Gallup and Dakota formations underlying the W/2 of Section 11, Township 29 North, Range 15 West, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well and a charge for risk involved in drilling well.
- CASE 7685: Application of Cimarron Energy Corporation for an unorthodox location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of a Pennsylvanian test to be drilled 1980 fast from the South line and 660 feet from the West line of Section 34. Township 22 South, Range 28 East, the S/2 of said Section 34 to be dedicated to the well.

CASES 7528 and 7529: (Continued and Readvertised)

Application of Jack J. Grypberg for compulsory pooling, Chavez County, New Maxico. Applicant, in each of the following two cases, seeks an order pooling all mineral interests down through the Abo formation underlying the lands specified in each case, each to form a standard 160-acre gas spacing and promation unit to be dedicated to a well to be drilled at a standard location thereon. Also to be concidered in each case will be the cost of drilling and completing said wells and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the wells and a charge for risk involved in drilling said wells:

CASE 7528: NW/4 Section 4, Township 5 South, Range 24 East

CASE 7529: NE/4 Section 4, Township 5 South, Range 24 East

(Continued from September 1, 1982, Examiner Hearing)

CASES 7666, 7667, 7668, and 7669: Application of Tates Petroleum Corporation for compulsory pooling, Chaves County, New Mexico. Applicant, in each of the four following cases, seeks an order pooling all mineral interests down through the Abo formation underlying the lands specified in each case, each to form a standard 160acre gas spacing and proration unit to be dedicated to a well to be drilled at a standard location thereon. Also to be considered in each case will be the cost of drilling and completing said wells and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the wells and a charge for risk involved in drilling said wells:

> CASE 7666: SW/4 Section 3; CASE 7667: NW/4 Section 4; CASE 7668: NW/4 Section 14; All of the above being in Township 5 South, Range 24 East and CASE 7669: NW/4 Section 2, Township 9 South, Range 25 East.

CASE 7670: (Continued from September 1, 1982, Examiner Hearing)

Application of Yates Petroleum Corporation for compulsory pooling, Chaves County, New Maxico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Morrow formation underlying the N/2 of Section 26, Township 14 South, Range 27 East, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well and a charge for risk involved in drilling said well.

sakentas paga sering ana katang ang sakang saka

#### CASE 7652: (Continued from August 18, 1982, Examiner Hearing)

Application of Coneco Inc. for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Cisco formation underlying all of partial Sections 34 and 35, Township 20 1/2 South, Range 23 East, underlying a previously approved 688-acre non-standard proration unit, to be dedicated to a well at a previously approved unorthodox location which is to be re-entered. Also to be considered will be the cost of re-entering said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well and a charge for risk involved in ra-entering said well.

CASE 7672: (Continued from September 1, 1982, Examiner Hearing)

In the matter of the hearing called by the Oil Conservation Division on its own motion for an order creating, assigning discovery allowable, contracting, and extending certain pools in Chaves, Eddy, Lea and Roosevelt Counties, New Mexico:

(a) CREATE a new pool in Eddy County, New Mexico, classified as an oil pool for Brushy Canyon production and designated as the Brushy Draw-Verse Shy Canyon Pool. Further, to assign approximately 25,410 barrels of discovery allowable to the discovery well, the J. C. Williamson UCBEWW Federal Well No. 1 located in Unit M of Section 25, Township 26 South, Range 29 East, NMPM. Said pool would comprise:

> TOWNSHIP 26 SOUTH, RANGE 29 EAST, NMPN Section 25: SW/4

(b) CREATE a new pool in Lea County, New Mexico classified as an oil pool for San Andres production and designated as the Hobbs Channel-San Andres Pool. The discovery well is the Bass Enterprises Production Company Humble City Unit Well No. 1 located in Unit D of Section 36, Township 17 South, Range 37 East, NMPM. Said pool would comprise:

> TOWNSHIP 17 SOUTH, RANGE 37 EAST, NMPM Section J: NW/4

(c) CREATE a new pool in Lea County, New Mexico, classified as a gas pool for Morrow production and derignated as the Humphreys Mill-Morrow Gas Pool. The discovery well is the Florida Exploration Company Reno Com Well No. 1 located in Unit D of Section 11, Township 25 South, Range 35 East, NMPM. Said pool would comprise:

> TOWNSHIP 25 SOUTH, RANGE 35 EAST, NMPM Section 11: N/2

(d) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for Abo production and designated as the Justis-Abo Pool. The discovery well is the Santa Fe Energy Company Carlson B-25 Federal Well No. 3 located in Unit 0 of Section 25, Township 25 South, Pange 37 East, NMPM. Said pool would comprise:

> TOWNSHIP 25 SOUTH, RANGE 37 EAST, NMPM Section 25: SE/4

(e) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Upper Pennsylvaniau production and designated as the McMillan-Upper Pennsylvanian Gas Pool. The discovery well is the Southland Royalty Company Pecos River Federal 20 Com Well No. 1 located in Unit J of Section 20, Township 19 South, Range 27 East, NMPM. Said pool would comprise:

> TOWNSHIP 19 SOUTH, RANGE 27 EAST, NMPM Section 20: E/2

(f) CREATE a new pool in Eddy County, New Merico. classified as a gas pool for Strawn production and designated as the Mosley Conyon-Strawn Gas Fol. The discovery well is W. A. Moncrief, Jr., Jurnegan State Well No. 1 located in Unit C of Section 8, Township 24 South, Range 25 East, NMPM. Said pool would comprise:

> TOWNSHIP 24 SOUTH, RANGE 25 EAST, NMPM Section 8: N/2

(g) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for Tubb production and designated as the West Nadine-Tubb Pool. The discovery well is the Tamarack Petroleum Company, Inc. Kornegay A Well No. 1 located in Unit F of Section 9, Township 20 South, Range 38 East, NMPM. Said pool would comprise:

> TOWNSHIP 20 SOUTH, RANGE 38 EAST, NMPM Section 9: NW/4

(b) CREATE a new pool in Lea County, New Mexico, classified as a gas pool for Morrow production and designated as the Pitchfork Ranch-Morrow Gas Pool. The discovery well is the HNG 011 Company Maders 32 State Com Well No. 1 located in Unit C of Section 32, Township 24 South, Range 34 East, NMPM. Said pool would comprise:

TOWNSHIP24SOUTH, RANGE 34EAST, NMPMSection32:N/2

(1) CREATE a new pool in Eddy County, New Mexico, classified as an oil pool for Yeso production and designated as the Seven Rivers-Yeso Pool. The discovery well is Chama Petroleum Corporation Irami Federal Well No. 1 located in Unit N of Section 34, Township 19 South, Range 25 East, NMPM. Said pool would comprise:

> TOWNSHIP 19 SOUTH, RANGE 25 EAST, NMPM Section 34: SW/4

(j) CREATE a new pool in Les County, New Mexico, classified as an oil pool for Abo production and designated as the East Skaggs-Abo Pool. The discovery well is the Texaco Inc. Ch. H. Weir A Well No. 12 located in Unit G of Section 12, Township 20 South, Range 37 East, NMPM. Said pool would comprise:

> TOWNSHIP 20 SOUTH, RANGE 37 EAST, NMPM Section 12: NE/4

(b) CREATE a new pool in Les County, New Mexico, classified as an oil pool for Tubb production and designated as the Teague-Tubb Pool. The discovery well is the Alpha Twenty-One Production Company Les Well No. 2 located in Unit A of Section 17, Township 23 South, Range 37 East, NMPM. Said pool would comprise:

> TOWNSHIP 23 SOUTH, RANGE 37 EAST, NMPM Section 17: NE/4

(1) CREATE a new pool in Les County, New Mexico, classified as an oil pool for Devonian production and designated as the Townsend-Devonian Pool. The discovery well is the Kimbark Oil and Gas Company New Merico 1-4 State Com Well No. 1 located in Unit N of Section 4, Township 16 South, Range 35 East, NMPM. Said pool would comprise:

> TOWNSHIP 16 SOUTH, RANGE 35 EAST, NMPM Section 4: Lots 11, 12, 13, and 14

(m) CREATE a new pool in Eddy County, New Maxico, classified as an oil pool for Bone Spring production and designated as the Welch-Bone Spring Pool. The discovery well is the Quanah Petroleum, Inc. Hay B Federal Com Well No. 1 located in Unit K of Section 9, Township 26 South, Range 27 East, NMPM. Said pool would comprise:

> TOWNSHIP 26 SOUTH, RANGE 27 EAST, NMPM Section 9: SW/4

(n) CONTRACT the horizontal limits of the Buckeye-Abo Pool in Les County, New Mexico, by the deletion of the following described area:

> TOWNSHIP 18 SOUTH, RANGE 35 EAST, NMPM Section 3: W/2 NW/4

(o) CONTRACT the horizontal limits of the Vacuum-Abo Reef Pool in Lea County, New Mexico, by the deletion of the following described area:

#### TOWNSHIP 18 SOUTH, RANGE 35 EAST. NMPM Section 3: E/2 NW/4

(p) EXTEND the Antelope Sink-Upper Pennsylvanian Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIE	2 19	SOUTH,	RANGE	23	EAST,	NMPM
Saction	13:	N/2				
Section	14:	N/2				

(q) EXTEND the West Arkenses Junction-San Andres Pool in Les County, New Mexico, to include therein:

> TOWNSHIP 18 SOUTH, RANGE 36 EAST, NMPM Section 20: NW/4

(r) EXTEND the Atoka-Yeso Fool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, BANGE 26 EAST, NMPM Section 26: E/2

(s) EXTEND the Bilbrey-Morrow Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 32 EAST, NMPM Section 5: NW/4 Section 6: 8/2

(t) EXTEND the Bunker Hill-Penrose Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 16 SOUTH, RANGE 31 EAST, NMPM Section 14: N/2 S/2 and NE/4

(u) EXTEND the Cemetery-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

> TOWNSHIP 20 SOUTH, RANGE 25 EAST, NMPM Section 3: S/2 Section 4: All

(v) EXTEND the Commence Stateline Tansill-Yates-Seven Rivers-Queen Pool in Lea County, New Maxico, to include therein:

> TOWNSHIP 26 SOUTH, RANGE 36 EAST, NMPM Section 26: NW/4 Section 27: NE/4 and E/2 NW/4

(w) EXTEND the South Empire-Morrow Gas Pool in Eddy County, New Mexico to include therein:

> TOWNSHIP 17 SOUTH, RANGE 28 EAST, NMPM Section 35: 5/2 Section 36: W/2

(x) EXTERD the South Empire-Wolfcamp Pool in Eddy County, New Mexico, to include therein:

> TOWNSHIP 17 SOUTH, RANGE 28 EAST, NMPM Section 36: E/2 ME/4

TOWNSHIP 17 GOUTH, RANGE 29 EAST, HAPM Section 31: NW/4 and 5/2 HE/4

(y) EXTEND the Forty Miner Ridge-Bone Spring Pool in Eddy County, New Mexico, to include therein:

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TOWNSHIP 23 SOUTH, SANGE 30 EAST, NOPM Section 16: SE/4

with states

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> (z) EXTEND the Hardy-Tubb Pool in Lea County, New Mexico, to include therein:

> > TOWNSHIP 21 SOUTH, RANGE 36 EAST, NMPM Section 2: Lots 11, 12, 13, 14, and S/2 Section 11: NW/4

(as) EXTEND the Northeast Lovington-Pennsylvanian Pool in Les County, New Mexico, to include therein:

> TOWNSHIP 16 SOUTH, RANGE 37 EAST, NMPM Section 20: NW/4

(bb) EXTEND the West Milnesand-Pennsylvanian Pool in Roosevelt County, New Mexico, to include therein:

TOWNSHIP 8 SOUTH, RANGE 34 EAST, NMPM Section 19: W/2

(cc) EXTEND the South Peterson-Pennsylvanian Associated Pool in Roosevelt County, New Mexico, to include therein:

> TOWNSHIP 5 SOUTH, RANGE 33 EAST, NMPM Section 30: SE/4 Section 31: N/2 NE/4

TOWNSHIP 6 SOUTH, BANGE 33 EAST, NMPM Section 15: 5/2

(dd) EXTEND the Race Track-San Andres Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 10 SOUTH, RANGE 28 EAST, NMPM Section 18: NE/4 and S/2 SE/4

(ee) EXTEND the Ross Draw-Wolfcamp Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 26 SOUTH, RANGE 30 EAST, NMPM Section ?3: S/2 Section 26: N/2

(ff) EXTEND the West Sand Dunes-Atoka Gas Pool in Eddy County, New Maxico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 31 EAST, NMPM Section 17: 5/2 Saction 20: All

(gg) EXTEND the Saunders Permo-Upper Pennsylvanian Pool in Les County, New Mexico, to include therein:

TOWNSHIP 14 SOUTH, RANGE 33 EAST, NMPM Section 21: NE/4

#### DOCKET: COMMISSION HEARING - WEDNESDAY - SEPTEMBER 22, 1982

OIL CONSERVATION COMMISSION-MORGAN HALL - 9 A.M. STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

#### The following cases were continued from the August 26, 1982, Commission Hearing:

- CASE 7656: Application of Cities Service Company for determination of reasonable well costs, Lea County, New Mexico. Applicant, in the above-styled cause, pursuant to the provisions of Section 70-2-17 C, NMSA, 1978 Comp., and Paragraph (5) of Division Order No. R-6781, seeks a determination of reasonable well costs for two wells drilled under the provisions of said Order No. R-6781 by Doyl; Hartman on lands pooled by said order.
- <u>CASE 7657</u>: Application of Harvey E. Yates Company for non-rescission of Order No. R-6873, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks the non-rescission of Order No. R-6873, which order pooled certain lands to be dedicated to a proposed Ordovician test well to be drilled thereon, being the W/2 of Section 18, Township 9 South, Range 27 East. Said order provided that should the unit well not be drilled to completion, or sbandonment, within 120 days after commencement thereof, operator shall appear and show cause why the pooling order should not be rescinded.

#### CASE 7658: (Readvertised)

Application of Harvey E. Yates Company for a dual completion and downhole commingling, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of its Seymour State No. 1 located in Section 18, Township 9 South, Range 27 East, in such a manner that Abo perforations from 4912 feet to 4929 feet would be commingled with Upper Atoka perforations from 5926 feet to 5952 feet and the aforessid intervals dually completed with Lower Atoka perforations from 6008 feet to 6048 feet and produced through parallel strings of tubing.

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Sec., T.P.J., Range         Just Completed         Dath TD         Depth PETD         Zone(s)         Record of CompleteMant PETD           3         1001         PETD         100-31-57 Mant         4-1-58 Mant         34/8         Ystes         Perfit         3378-3350, 3361-3366, 3366, 3366, 3366, 3366, 3378-3360, 3364, 3366, 3378-3360, 3378-3378, 3378-3360, 3378-3378, 3378-3378, 3378-3378, 3378-3360, 3378-3378, 33					•				
Sec., Tup, Range         Type         Date Depth Spudded         Depth TD         Depth TD         Zane(a)         Record of Completion (FarT(c)) and Wall Construction FarT(c)) and Wall Construction (Factorpletic)           2310 FEL 4 1960 FEL Undt K Sec. 13, TDOS, N325, NUERI La County, New Mexico         10-31-57 H a)-25-58         4-1-58 TA 9-25-58         3543         3478         Yaras         Perfsi 3393-3300, 3395-3300, 3395- 3300, 3342-3346, 3395- 3310, 3366, 3395- 3310, 9252, 3366- 3310, 925-336, 3396- Sec. 13, TDOS, R325, NUERI Sec. 13, TDOS, R325, NUERI Sec. 13, TDOS, R325, NUERI Sec. 13, TDOS, R325, NUERI Mell         In-7-58         2-25-58         3499         -         Yates         Cessing: 8 5/8'''31 Logenit set 6 1001' and cemented w/35 Sec. 13, TDOS, R325, NUERI Mell         In-7-58         2-25-58         3499         -         Yates         Centractor: Sec. 13, TDOS, R325, NUERI Mell         In-7-58         2-25-58         3499         -         Yates         Centractor: Sec. 13, TDOS, R325, NUERI Mell         In-7-58         2-25-58         3499         -         Yates         Centractor: Sec. 13, TDOS, R325, NUERI Mell         Sec. 13, TDOS, R325, NUERI Mell         In-7-59         2-25-58         3499         -         Yates         Centractor: Sec. 13, TSI-60, 332-57, 3362-76, 3380-3466, 3335-57, 3362-7							•	-	
Sec., Try., Range         Just bracked         Depth completed         Depth prin         Zone(s)         Mecord of Completion         Record of Completion           2310 FSL 6. 1960 FEL UNIE         Water         10-31-57         4-1-58         3543         3478         Yates         Perfit 333-4330, 3361-3366, 3386-3468, 4755 at (50)           2         Sec. 13. T205, R33E, NR2M         Active Oil         1-7-58         2-25-58         3499         -         Yates         Casing: 8 J/8' 324 Lapseld set ( 0101 and cemanted w/755 at (50)           3         Sec. 13. T205, R33E, NR2M         Active Oil         1-7-58         2-25-58         3499         -         Yates         Casing: Tool Drilled           5         Sec. 13. T205, R33E, NR2M         Well         1-7-58         2-25-58         3499         -         Yates         Open Holg: 3464-3479           5         Sec. 13. T205, R33E, NR2M         Well         1-7-58         2-25-58         3499         -         Yates         Open Holg: 3464-3479           5         Sec. 13. T205, R33E, NR2M         Well         1-7-58         2-25-58         3499         - <th>Survey show</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>•</th>	Survey show								•
Sec., T.T., Name         Just Shudded         Completed Completed         Depth TD Part (s)         Depth Th Part (s)         Record of Completeds; Part (s)         Mecra and (s) <th>3464 c</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	3464 c								
Sec., Typ., Range         Jye         Dudded Shudded Sec. 13, T205, R323, NNPH         Shudded Injection         Completed TD         TD         Zane(s)         Record of Completion Parf(s) and Wall Construction           2310 FSL 6 1980 FEL Unit K Sec. 13, T205, R323, NNPH         Ungetion         10-31-57 TA 9-25-58         3543         3478         Vates         Parf(s) and Wall Construction Parf(s) and Wall Construction           2210 FSL 6 1980 FEL Unit K Lea County, New Mexico         Wall         10-31-57 TA 9-25-58         3543         3478         Vates         Parf(s) and Wall Construction Parf(s) and Canter Sile 3346-3356, 3364-3369, 3356-3368, 3364-3369, 3364-3369, 3364-3478, 3312-346, 3364-3478           2210 FSL 6 1980 FEL Unit K Sec. 13, T205, R32E, NMPH         Weill         1-7-58         2-25-58         3499         -         Yates         Casing Fool Drilled 2001 Factor: Nosch & Shepard 342-46, 3336-77, 3362-78, 3382-364, 3330-77, 3362-76, 3382-364, 3330-77, 3382-78, 3382-364, 3392-77, 3382-78,           3         Sec. 13, T205, R32E, NMPM         Weill         1-7-58         2-25-58         3499         -         Yates         Open Hole: 306-316, 3336-70, 3322-74, 3382-76, 3382-77, 3382-77, 3382-76, 3382-77, 3382-76,	w/400 sx. cmt. cf								
Sec., T.P., Range         Spudded Part(s)         Completed Part(s)         Dapth Part(s)         Record of Completion Part(s)         Rec	8 5/8" set a 997	******							
Sec., T.P., Range         Lyre         Spuided         Completed         TD         Part(s)         Record of Completation; Part(s) and Val Construction           2210 FSL 4 1980 FEL Unit K         Water         10-31-57         4-1-58         354.3         3478         Yates         Perf(s)         and Val Construction           Sec. 13, T205, R3EL Unit K         Water         10-31-57         4-1-58         354.3         3478         Yates         Perf(s)         3335-3350, 3361-3366, 3386- 3312, 3363-3360, 3361-3366, 3386- 3312, 3372, 3363-3360, 3361-3366, 3386- 3312, 3372, 3376-3380, 3236-3512, 3363- 3372, 3376-3380, 3236-3512, 3363- 3372, 3376-3380, 3236-3512, 3363-3512, 3376-3380, 323-351, 3362-362, 3364- 352, 571 & 990 FEL Unit K         Accive Oil         1-7-58         2-25-58         3499         -         Yates         Casing: 8 5/8" 32/ Lapveid set 6 1001 and cemented V/255 set 6 9/91, and cramented V/255 set 6 9/91, and cramented V/75 set (cop (9 3110 by survey).           3135-571 & 990 FEL Unit K         Accive Oil         1-7-58         2-25-58         3499         -         Yates         Contractor: Roach & Shepard           310.2 FEL Unit K         Accive Oil         1-7-58         2-25-58         3499         -         Yates         Open Hole: 3002-11, 3316-20, 3324-34, 3322-46, 3352-57, 3362-76, 3324-46, 3352-57, 3362-76,	3430-0								
Sec., Twy., Name         Sync         Sudded         Completed         TD         Depth         Zone(s)         Macord of Completion; Parts         Math Will construction; Parts         Macord of Completion; Parts         M	3353-57,	L	् <b>न</b> अ		i,				Production Company
Sec., Try., Range     Lyre     Snudled     Completed     TD     Part (s)     Record of Dompletion; Part(s) and Vall Construction       2310 FSL 4 1980 FED Unit K Sec. 13, 17205, R332, NNPH Lea County, New Mexicoo     10-31-57 Hail     10-31-57 TA 9-25-58     354.3     3478     Yates     Part(s) and Vall Construction TA 9-25-58       Lea County, New Mexicoo     Weil     (Recompleted: 10-3-74)     354.3     3478     Yates     Part(s) and Vall Construction 3316-336, 3361-3366, 3385- 3316-3363, 3361-3365, 3385- 3316-3364, 3460-3478       Lea County, New Mexicoo     Weil     (Recompleted: 10-3-74)     0.3478     Yates     Casing: 8 5/8" 324 Lapveld set 0 1001' and cemented v/255 sx (100 sx circ. to pit). 54" 1.0" J-55 set 0 3491 and cemented v/255 sx (top 0 3110 by aurvey).     Casing: 100 Sx circ. to pit). 94" 1.0" J-55 set 0 3499       25.5 FNL & 990 FEL Unit R Sec. 13, T205, R32F, NEW     Active 011     1-7-58     2-25-58     3499     -     Yates     Contractor: Roach & Shepard       25.5 FNL & 990 FEL Unit R Sec. 13, T205, R32F, NEW     Weil     1-7-58     2-25-58     3499     -     Yates     Open Hole: 3464-3479	3302-11, 3316-20,		, **						Derator: Anadarko
Sec., T.Y.P., Range     Luter     Sudded     Completed     TD     Part       2310 FSL & 1980 FEL Unit K     Water     10-31-57     4-1-58     3543     3478     Yates     Perfs. 3335-3350, 3361-3366, 3385-3460, 3385-3420, 3462-3478, 318-3340, 3452-3454, 3460-3478       Lea County, New Mexico     Well     Injection     IRecompleted: 10-3-74)     10-31-57     Impleted: 10-3-74)     Sec. 13, T205, R335, MDPH     Sec. 13, T205, R335, MDPH     Sec. 13, T205, R335, 3361-3366, 3385-3460, 3356-3362, 3366-3478, 3128-3460, 3356-3362, 3366-3372, 3376-3380.       Lea County, New Mexico     Well     Injection     IRecompleted: 10-3-74)     Sec. 13, T205, R335, MDPH     Sec. 13, T205, R335, MDPH     Sec. 13, T205, R335, 3361-3366, 3365-3362, 3366-3372, 3376-3380.       Lea County, New Mexico     Well     Injection     IRecompleted: 10-3-74)     Sec. 13, T205, R325, MDPH     Sec. 13, T205, R325, MDPH     Sec. 13, T205, R325, MDPH     Sec. 13, T205, R326, 3365-3362, 3366-3362, 3366-3372, 3376-3380.       Sec. 13, T205, R325, MDPH     Well     Intervent of templeted: 10-3-74, Interventof templeted: 10-3-74, Interventof templeted: 10-3-74, Int	-	•					NCTT		
Sec., Twp., Range     Jyte     Date Date     TD     Part     Zone(s)     Record of Complexion; Part(s) and Wall Construction       2310 FSL 4 1980 FEL Unit K Sec. 13, T205, R33E, NMPM Lea County, New Mexico     Water Minjection     10-31-57 TA 9-25-58     4-1-58 3543     3478     Vates     Perfs: 312-3346, 335-3360, 3361-3366, 338- 3372, 3376-3380.       Lea County, New Mexico     Well     (Recompleted: 10-3-74)     (Recompleted: 10-3-74)     S43     3478     Vates     Perfs: 3312-3346, 3356-3362, 336- 3372, 3376-3380.     S43     3478     Vates     Sec. 3372, 3376-3380.     S242-3454, 3460-3478, 3372, 3376-3380.     S48     S48     S101' and cemented w/255 Sx (100 ' and cemented w/255 Sx (100 ' and cemented w/255 Sx (100 ' and cemented w/255 Sy (10' J-55 set ( 3491) and cemented w/75 sx (top ' 3110 by survey).     Sas (top ' 3110 by survey).     Sas (top ' 3110 by survey).	Hole:	Yates	1	3499	2-25-58	1-7-58	Active 011	5064 % TNE	ieas lates unit 3-3
Sec., T.Yp., RangeLypeDate SpuddedDepth CompletedDepth PBTDZone(s)Record of Completed in Construction2310 FSL & 1980 FEL Unit K Sec. 13, T205, R332, NKPH Lea County, New MexicoWater Injection10-31-57 TA 9-25-58 (Recompleted: 10-3-74)35433478YatesPerfs: 3420, 342-3454, 3460-3478, 3312-3346, 3385- 3312-3346, 3385-3362, 3368- 3312, 3376-3380.2a County, New MexicoWell(Recompleted: 10-3-74)10-3-74)Sec. 13, T205, R332, NRPH (Recompleted: 10-3-74)Sec. 13, T205, R332, NRPH (Recompleted: 10-3-74)Sec. 13, T205, R332, NRPH (Recompleted: 10-3-74)Sec. 13, T205, R332, Sec. 1356, 3361, 3366, 3385, 3360, 3361, 3366, 3385, 3372, 3376, 3380, 3361, 3356, 3362, 3368, 3372, 3376, 3380, 3372, 3376, 3376, 3376, 3380, 3372, 3376, 3376, 3376, 3376, 3376, 3376, 3376, 337	Roach &								
Sec., Twp., Range     Lype     Date     Depth     Record of Completed					•			1	
Sec., Twp., Range         Jyte         Date         Depth         Zone(s)         Record of Completed, TD         Perf(s)         And Weil           2310 FSL & 1980 FEL Unit K Sec. 13, T2OS, R33E, NMPH         Water         10-31-57         4-1-58         3543         3478         Yates         Perfs: 3420, 342-3454, 3460-3478, 3312-3348, 335-3350, 3361-3366, 3385- 3312-3348, 335-3362, 3360-3478, 3312-3348, 335-3362, 3360-3478, 3312-3348, 335-3362, 3360-3478, 3312-3348, 335-3362, 3368- 3372, 3372, 3376-3380.         Casing: 8 5/8" 32% Lapveld set @ 1001' and cemented w/255 sx (100 sx circ. to pit). 54" 1/* J-55 set @ 3491 and cemented w/75 sx (top           "@ 3110 by survey).         "@ 3110 by survey"         "@ 3110 by survey"	Tool Drilled ·								
Sec., Twp., Range         Lyre         Date         Depth         Zone(s)         Record of Completion;         Record of Completion;           2310 FSL & 1980 FEL Unit K         Water         10-31-57         4-1-58         3543         3478         Yates         Perfs:         3335-3350, 3361-3366, 3385-3326, 3361-3366, 3385-3326, 3361-3366, 3385-3326, 3422-3454, 3460-3478, 3122-3448, 3356-3362, 3362-3348, 3356-3362, 3362-3348, 3356-3362, 3362-3348, 3356-3362, 3362-3348, 3356-3362, 3362-3348, 3356-3362, 3362-3348, 3356-3362, 3362-3348, 3356-3362, 3362-3348, 3356-3362, 3362-3348, 3356-3362, 3362-3372, 3376-3380.           Lea County, New Mexico         Well         (Recompleted: 10-3-74)         Yates         Perfs: 3135-336, 3361-3366, 3386-3372, 3376-3380.           Lea County, New Mexico         Well         (Recompleted: 10-3-74)         Sing: 8 5/8", 324 Lapweld set 0         1001' and cemented w/255           Still Lington         Sing: 8 5/8", 324 Lapweld set 0         1001' and cemented w/255         Sing: 1001 set 1001' and cemented w/255           and cenented w/75 set 0 3491         and cenented w/75 set 0 3491         Sing: 1001 set 1001' set 1001' set 1001'	( Silv by survey).		-		-				
Sec., Twp., Range         Lype         Date         Depth         Depth         Zone(s)         Record of Completion;         Record of Completion;           2310 FSL & 1980 FEL Unit K         Water         10-31-57         4-1-58         3543         3478         Yates         Perfs;         3335-3350, 3361-3366, 3385- 3420, 3442-3454, 3460-3478, 3318-3348, 3356-3360,         3478         Yates         Perfs;         3335-3350, 3361-3366, 3385- 3420, 3442-3454, 3460-3478, 3318-3348, 3356-3360,         3478         Yates         Perfs;         3335-3350, 3361-3366, 3385- 3420, 3442-3454, 3460-3478, 3318-3348, 3356-3360,         320, 3442-3454, 3460-3478, 3318-3348, 3356-3362, 3368- 3372, 3376-3380,         3478         Yates         Perfs;         3327, 3376-3380, 3372, 3376-3380,         3478         Yates         20, 3442-3454, 3460-3478, 3318-3348, 3356-3362, 3368- 3372, 3376-3380,         3478         Yates         20, 3442-3454, 3460-3478, 3318-3348, 3356-3362, 3368- 3372, 3376-3380,         3478         Yates         20, 3442-3454, 3460-3478, 3318-3348, 3356-3362, 3368- 3372, 3376-3380,         3478         Yates         20, 140, 12, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14		-				-			
Sec., Twp., Range         Lype         Date         Depth         Sounded         Completed         TD         PBTD         Zone(s)         Record of Completion;         Record of Completion;           2310 FSL & 1980 FEL Unit K         Water         10-31-57         4-1-58         3543         3478         Yates         Perfs:         335-3350, 3361-3366, 3385- 3420, 3442-3454, 3460-3478, 3182-3448, 3356-3360, 33182-3448, 3356-3362, 3368- 3372, 3376-3380.           Lea County, New Mexico         Well         (Recompleted: 10-3-74)         10-3-74)         S478         Yates         Perfs: 3372, 3376-3380.         3342-3454, 3460-3478, 3372, 3376-3380.         3372, 3376-3380.         S18" 374         Lapweld set @ 1001' and cemented w/255 sx (100 sx circ. to pit).	1. J-55 set @								
Sec., Twp., Range         Lye         Date         Depth         Depth         Record of Completion;         Record of Completion;           2310 FSL & 1980 FEL Unit K         Water         10-31-57         4-1-58         3543         3478         Yates         Perfs: 3135-3350, 3361-3366, 3385- 3420, 3442-3454, 3460-3478, 3918-3348, 3356-3380,         3478         Yates         Perfs: 3420, 3442-3454, 3460-3478, 3918-3348, 3356-3362, 3368- 3372, 3376-3380,         3478         Yates         Perfs: 3420, 3442-3454, 3460-3478, 3918-3348, 3356-3362, 3368- 3372, 3376-3380,         3478         Yates         Perfs: 3135-3350, 3361-3366, 3385- 3420, 3442-3454, 3460-3478, 3372, 3376-3380,         3478         Yates         Perfs: 3135-3350, 3361-3366, 3385- 3420, 3442-3454, 3460-3478, 3372, 3376-3380,         3478         Yates         Perfs: 312-3348, 3356-3362, 3368- 3372, 3376-3380,         3478         Yates         Perfs: 327, 3376-3380,         3478         3478         Yates         1001' and cemented w/255	(100 sx circ. to pic)				-			-	
Sec., Twp., RangeLypeDateDepthZone(s)Record of Completion:Record of Completion:2310 FSL & 1980 FEL Unit K Sec. 13, T20S, R33E, NMPH Lea County, New MexicoWater10-31-57 TA 9-25-58 (Recompleted: 10-3-74)35433478VatesPerfs: 3478335-3350, 3361-3366, 3385- 3420, 3442-3454, 3460-3478, 3312-3348, 3356-3362, 3368- 3372, 3376-3380.Perfs: 34783372, 3376-3380.Casing:8 5/8" 32% Lapweld set @	1001' and cemented								
Sec., Twp., RangeLypeDateDepthZone(s)Record of CompletionRecord of Completion2310 FSL & 1980 FEL Unit KWater10-31-574-1-5835433478YatesPerfs:3335-3350, 3361-3366, 3385-Sec. 13, T20S, R33E, NMPHInjectionTA 9-25-58TA 9-25-583478YatesPerfs:3335-3350, 3361-3366, 3385-Lea County, New MexicoWell(Recompleted: 10-3-74)(Recompleted: 10-3-74)3478Yates912-3348, 3356-3362, 3368-3372, 3376-3380.	8 5/8" 324 Lapweld					•			
Sec., Twp., RangeLypeDateDepthZone(s)Record of Completion;2310 FSL & 1980 FEL Unit KWater10-31-574-1-5835433478YatesPerfs;3335-3350, 3361-3366, 3385-Sec. 13, T20S, R33E, NMPHInjectionTA 9-25-58TA 9-25-583478YatesPerfs;3325-3350, 3442-3454, 3460-3478,Lea County, New MexicoWell(Recompleted: 10-3-74)(Recompleted: 10-3-74)3478YatesPerfs;3318-3348, 3356-3362, 3368-	3372, 3376-3380.		i		•	· .	•		Sperator: Anadarko
Sec., Twp., Range       Lype       Date       Depth       Record of Completion:         2310 FSL & 1980 FEL Unit K       Water       10-31-57       4-1-58       3543       3478       Yates       Perfs:       3335-3350, 3361-3366, 3385-         Lea County, New Maxing       Unit       Mater       Injection       TA 9-25-58       3543       3478       Yates       Perfs:       3420, 3442-3454, 3460-3478	3318-3348, 3356-3362, 3368-					(kecompiet	1 C T T		
Sec., Twp., Range Lype Date Depth Record of Completion: 2310 FSL & 1980 FEL Unit K Water 10-31-57 4-1-58 3543 3478 Yates Perfa: 3135-3150 1361 1366 1302	•				•	TA 9-25-58	TUJection	Count	
Sec., Twp., Range Lype Date Depth Spudded Completed TD PBTD Zone(s) Record of Completion;		Yates	3478	3543		10-31-57	Water	FSL & 1980 FEL Unit	leas fates unit 3-2
Twp., Range Spudded Completed m Record of Completion;	and Well (	Zone(B)	UTR2		Compared.				
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Contractor: H. P. Holmes			-				-
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Open Hole: 3267-3525	Yates	I	3525	<b>.</b>	Water	1960 FNL & 660 FNL Unit E Sec. 18, T205, R34E, NAPH	Teas Yates Unit 1-1
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Contractor: Cactus Drlg Co.	•						·
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Casing: 9 5/8" set @ 1500" cemented w/500 sx. cmt.						• • •	
		-			NGTT	70) FE00)	<b>**</b> ,*
1 1 1 a a	Yates		3612	12-9-72 6-18-73	Active Oil	2310 FNL & 2310 FWL Unit F	lallen Federal #6
Per	Zone(s)	PBTD	TD	patatdon Combined		ŀ	
Record of Complexion;		Depth	Dej	Date	Туре	Sec., Twp., Range	Serutor Number
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Instruction         Status         Status <thstatus< th="">         Status         <thstat< th=""><th></th><th></th><th></th><th>• •</th><th>- </th><th></th><th></th><th>-</th></thstat<></thstatus<>				• •	- 			-
Jack         User, Tor, Bart         Type         Bart         Dare for         Dare for <thdare for<="" th=""> <thdare for<="" th=""> <thdar< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></thdar<></thdare></thdare>								
Answer         Lotexton, Dubt Let.         Type         Barton         Davet.								••
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Ausser         Constant, Unit:         Type         Snutled         Complexed         The print         Energy         Record of Complexeston:         The print         Energy         Name of Complexeston:         State of Complexesto								
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Number         Concision, Unit, Lie.         Type         Soundad         Completed         Th         Paper.								••••••
Junder         Junker         Constant, Unit Litz, Sec. 75, Bance         Type         Soudadi Sudadi         Completed (Suppletion)         Type         During (Suppletion)           nn Federal /S         2130 FEL Unit K         F & A (Junked Sec. 10, T205, 3342, NNPH before         F & A (Junked Feleral         3356         Yares         Junked and Abendoned         Suppletion           100-77-75         Junked Sec. 10, T205, 3342, NNPH before         F & A (Junked Feleral         70         Yares         Junked and Abendoned         Suppletion           100-77-75         Junked IO-77-75         Suppletion         3356         Yares         Junked and Abendoned         Suppletion           100-77-75         Junked IO-77-75         Junked IO-77-75         3362         Yares         Junked and Abendoned         Suppletion           100-77-75         Junked IO-77-75         Junked III         Junked III         Junked IIII         Junked IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII								
Location, Unit Let.         Type         Depth         Depth <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>-</th> <th>•</th>							-	•
Number         Location, Unit, Ec         Type         Depth         Depth         Tit         Page         Neuroted         Constant         Record of Complexion           nn Federal #8         2110 FEL 12:10 Mit K         P & A (lunked 7-16-73         Junked 2000         3536         Yates         Junked and Anndoned         •           sec. 10, T205, B32E, NEW         P & A (lunked 7-16-73         Junked 3536         Yates         Junked and Anndoned         •           sec. 10, T205, B32E, NEW         Production)         P & A         10-7-75         Junked 7-16-73         Junked 7-16-73         Junked 7-16-73         Junked 7-16-73         Junked 7-16-73         Junked 7-16-73         Junked 7-16-75         Junked 7-16-75         Junked 7-16-75         Junked 7-17-75         Junked 7-16-75         Junked 7-17-75         Junked 7-16-75         Junked 7-17-75         Junked 7-16-75         Junke		-				•		
Number         Description         Date         Depth         Depth         Depth         Page (d)         Record of Gomplasion           nn Federal #8         2130 FSL 6.2310 FWL Unit K P 6. A (Junked 7-16-75 g 6.A         Junked 3556         3556         Valen         See. 18, 2205, 3342, NRPM hefore         Junked 7-16-75 g 6.A         Junked 3556         Valen         Junked and Abandoned         -           100-7-75         See. 18, 2205, 3342, NRPM hefore         Production)         10-7-75         Junked 3556         Valen         Junked and Abandoned         -           100-7-75         See. 18, 2205, 3342, NRPM hefore         Production)         10-7-75         Junked 3556         Valen         Junked and Abandoned         -           100-7-75         See. 18, 2205, 75L Unit K         Production         10-7-75         Junked         3550         Valen         Junked and Abandoned         -           100-7-75         See. 18, 2205, 75L Unit K         Producting         10-18-75         J-7-76         J562         Valen         See. 100 restile from 2961 restile structure           100-18-75         J10-18-75         J0-18-75         J562         Valen         See. 100' cemented v/100 st.		-		-	•			
Internet, Number         Location, Unit Lizz.         Type         Date         Th         Date         Th         Perf (2)         Record of Completion (1)         Record of Completion (1)         Perf (2)         Record of Completion (1)         Perf (2)         Record of Completion (1)         Record of Completion (1)								
Internet         Number         Location, Unit Liz:         Type         Date         Depth (mm)         Zone(s)         Record of Complexiting Perf(s) and Vall Constructing           nn Federal /8         2310 FEL & 2310 WEL Unit Liz:         Ya         Sudded         Completed         TD         PBTD         Zone(s)         Record of Complexiting           an Federal /8         2310 FEL & 2310 WEL Unit Liz:         Ya         A (Junked         7-16-75         Junked         3556         Yares         Junkad and Mandoned         .           sec. 18, T205, N342, NDPM         Production)         Production)         10-7-75         10-7-75         Sec. 16, T205, A342, NDPM         Production)         10-7-75         Sec. 16, T205, T20, NDPM         Sec. 16, T205, T20, NDPM         Producting         10-18-75         3-7-76         3562         Yares         Sec. 16, T205, T30, NDPM         Sec. 16, T205, T302, NDPM         Sec. 16, T205, T302, NDPM         10-18-75         3-7-76         3562         Yares         Sec. 16, T205, T302, NDPM				~				
Liner         Number         Cocation, Date Line.         Type         Date Depth         Date The PHYD         Date PhyD         Depth Type         Record of Completing PhyD         Record of Completing Part           nn Federal /B         2130 FBL 6 2310 FML Unit K Sec. 15, T205, R342, NUMIK         P & A (Junked 7-16-75 Sec. 15, T205, R342, NUMIK         P & A (Junked 7-16-75 Sec. 15, T205, R342, NUMIK         P & A (Junked 7-16-75 Sec. 15, T205, R342, NUMIK         P & A (Junked 7-16-75 Sec. 16, T205, R342, NUMIK         D & A (Junked 7-16-75 Sec. 16, T205, R342, NUMIK         D & A (Junked 7-16-75 Sec. 16, T205, R342, NUMIK         Sec. 16, T2	A/A							
Loc         Sume         Nume         Nume         Date         Depth         Zone(s)         Record of Completion:           in         Federal #8         2315 FSL & 2310 FWL Unit & P & A (Junked 7-16-75 P & A         Junked 7-16-75 P & A         Junked 7-16-75 P & A         Junked and Abandoned         Perf(s) and Weil Construction           incr:         Mailen         Sec. 16, 2205 K JSLE, NEW Mexico         Production)         10-7-75 P & A         3556         Xates         Junked and Abandoned         -           incr:         Mailen         Sec. 16, 2205 K JSLE, NEW Mexico         Production)         10-7-75         Junked 10-7-75         Junked and Abandoned         -<		 						
numer         Numer         Constant, Unit Let.         Type         Date         TD         Parf ()         Record of (Completed)         Record of (Completion)           nn Federal #8         2310 FEL 6 2310 FML Unit K         P & A (Junked         7-16-75         Junkad         3556         Yates         Junkid and Mail Construction           sec:         10, 7205, 3342, NEPM         before         10-775         Junkad         3556         Yates         Junkid and Maindoned         -           sec:         10, 7205, 3342, NEPM         before         10-7-75         Junkad         3556         Yates         Junkid and Maindoned         -           sec:         10, 7205, 3342, NEPM         before         10-7-75         Junkad         356         Yates         Junkid and Maindoned         -           sec:         10, 7205, 3342, NEPM         before         10-7-75         Junkad         3562         Yates         Junked and Maindoned         -           section Corpany         3310 F51 & 2325 FAL Unit K         Producting         10-18-75         3-7-76         3562         Yates         Zable Tool Drilled         Zonicter: N/A           sec:         130 F51 & 2325 FAL Walt K         Producting         10-18-75         3-7-76         3562         Yates	Tool						••••	~
number         Location, Unit Let.         Type         Spudded         Completed         TD         Path         Zone(s)         Record of Completion:         Path         Zone(s)         Record of Completion:         Path         Spudded         Completed         TD         PBTD         Zone(s)         Record of Completion:         Path         Zone(s)         Path		* ****						
number     Location, Unit Lt.r.     Type     Spudded     Completed     TD     Papth     Zone(s)     Record of Completion;       nn Federal #8     2310 FSL 6.2310 FL Unit K     P 6 A (Junked     7-16-75     Junked     3556     Vates     Junked and Abandoned     •       sec. 16, T203, R342, NEW     before     P 6 A (Junked     7-16-75     Junked     10-7-75     Junked and Abandoned     •       sec. 16, T203, R342, NEW     before     Production)     10-7-75     Jone S     Vates     Junked and Abandoned     •       sec. 10, T203, R342, NEW     Production)     Production)     10-7-75     Jone S     Vates     Junked and Abandoned     •       sec. 10, T203, R342, NEW     Production)     Production)     10-7-75     Jone S     Vates     Junked and Abandoned     •       sec. 10, T203, R342, NEW     Production)     Production     10-7-75     Jone S     Sec. 10, T203, R342, NEW	ented w/60 ev			<b></b>			•••	
number     Location, Unit Lit.     Type     Date     Date     Depth     Zone(s)     Record of Completion:       nn Federal #8     2310 FSL & 2310 FNL Whit K     P & A (Junked 7-16-75     Junked 3556     Yates     Junked and Abandoned     -       sec. 18, T205, RA32, NEW     Pack Production)     Production)     10-7-75     6 A     3556     Yates     Junked and Abandoned     -       icori     Mailen     Junked Completed     TD     PRD     Yates     Junked and Abandoned     -       icori     Mailen     Junked County, New Mexico     Production)     Production)     10-7-75     Sec. 16, T205, R325, NEW     Production)     10-7-75     Sec. 16, T205, R325, NEW     Sec. 16, T205, R325, NEW     Sec. 16, T205, R342, NEW     Producting     10-18-75     3-7-76     3562     Yates     Sec. 16, T205, R342, NEW	liner from 2950'-3562'				24			
number     Location, Unit Lr.     Type     Date     Dapth     Zone(s)     Record of Gemplation;       nn Federal #8     2310 ESL & 2310 FML Unit K     P & A (Junked 7-16-75 Junked 10-7-75 Å A generation;     Junked and Abandonad .     Sec. 10, 2005, 834E, NNEW     P & A (Junked 7-16-75 Å A generation;     Junked and Abandonad .     Junked and Abandonad .     Sec. 10, 2005, 834E, NNEW     Production;     P & A (Junked 7-16-75 Å A generation;     Junked and Abandonad .     Sec. 10, 2005, 834E, NNEW     Depth     Zone(s)     Junked and Abandonad .     Sec. 10, 2005, 834E, NNEW     P & A (Junked 7-16-75 Å A generation;     Sec. 10, 2005, 834E, NNEW     Production;     P & A (Junked 7-16-75 Å A generation;     Sec. 10, 2005, 834E, NNEW     Production;     Non-7-75 Å A generation;     Sec. 10, 2005, 834E, NNEW     Production;     Non-7-75 Å A generation;     Sec. 10, 2005, 834E, NNEW     Producting     Non-10-18-75 Å 3562     Yates     Cable Tool Drilled     Contractor; N/A     Sec. 10, 7205, 834E, NNEW     Sec. 10-18-75 Å 3562     Yates     Sec. 10-1516, 5205, 834E, NNEW     Sec. 10-18-75 Å 10-18-75 Å     Sec. 10-1516, 5205, 571, 501, 501, 501, 501, 501, 501, 501, 50	cire,	•					-	
number     Location, Unit Lr.     Type     Date     Depth     Depth     Record of Completion; Perf(s) and Weil       nn Federal #8     2310 FML Unit K Sec. 18, T205, R34E, NMPM     P & A (Junked 7-16-75 before     Junked P & A     3556     Yates     Junked and Abandoned before       1007:     Wailen     Completed     TO     PSTD     Zone(s)     Record of Completion; Perf(s) and Weil       1007:     Sec. 18, T205, R34E, NMPM     P & A (Junked 7-16-75     Junked 10-7-75     3556     Yates     Junked and Abandoned casing; 16" 30 cemante ont. citc. Production)       1007:     Sec. 18, T205, R34E, NMPM     Production)     10-18-75     3-7-76     3562     Yates     Centractor; N/A       en Federal #8     23:0 FSL & 2395 FML Unit K     Producing Sec. 18, T205, R34E, NMPM     Producing OII Weil     10-18-75     3-7-76     3562     Yates     Perfs: 3410-3516; Casing; 16" set @ 100"	: @ 3258 w/1150 sx		· · · · · · · · · · · · · · · · · · ·				· · · · ·	Production Company
numer     Location, Unit Ltr.     Type     Date     Depth     Depth     Zone(s)     Record of Completion;       an Federal #8     2310 FSL 6 2310 FWL Unit K     P & A (Junked 7-16-75     Junked 3356     3356     Yates     Junked and Abandoned       sec. 18, T205, R342, NMPM     before     P & A     Production)     Production)     10-7-75     Junked 3356     Yates     Junked and Abandoned       sec. 18, T205, R342, NMPM     Production)     Production)     Production)     10-7-75     Junked 3356     Yates     Junked and Abandoned       sec. 10, Company     Sec. 18, T205, R342, NMPM     Production)     Production)     10-18-75     3-7-76     3362     Yates     Junked and Abandoned       sec. 18, T205, R342, NMPM     Producting     10-18-75     3-7-76     3362     Yates     Sec. 18, T205, R342, NMPM     Sec. 18, T205, R342, NMPM     Sec. 10, T205, R342	4/380 ax out strong tod			•				
Juner     Location, Unit Ltr.     Type     Date     Depth     Zone(s)     Record of Completion:       Information     2310 FSL 6 2310 FML Unit K     P & A (Junked     7-16-75     Junked     3556     Yates     Junked and Abandoned       Sec.:     10,7205, R34E, NNFM     Defore     Production)     Production)     10-7-75     3556     Yates     Junked and Abandoned       Location     County, New Mexico     Production)     Production)     10-7-75     356     Yates     Junked and Abandoned       Location     County, New Mexico     Production)     Production)     10-7-75     356     Yates     Junked and Abandoned       Location     County, New Mexico     Production)     Production)     10-7-75     356     Yates     Casing: 16" 32" cemente       Location     County, New Mexico     Production)     Production)     10-7-75     356     County, New Mexico     Casing: 16" 32" cemente       Location     County, New Mexico     Production)     Production)     10-7-75     State     Casing: 16" 32" cemente       Location     County, New Mexico     Producting     10-18-75     3-7-76     3562     Yates     Cable Tool Drilled       Contractor:     N/A     Producting     10-18-75     3-7-76     3562     Yates <td< th=""><th>16"</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>	16"							
Inter     Location, Unit Lin.     Type     Date     Depth     Depth       Inter     Sec., Two, Range     Spudded     Completed     TD     PBTD     Zone(s)     Record of Completion;       an Federal #8     2310 FSL & 2310 FWL Unit K     P & A (Junked     7-16-75     Junked     3556     Yates     Junked and Abandoned       Sec. 18, T205, R34E, NMPM     before     P & A     10-7-75     Junked     3556     Yates     Junked and Abandoned       Incrin Company     Lea County, New Mexico     Production)     IO-7-75     IO-7-75     Sec. 16, T205, R34E, NMPM     Sec. 16, T205, R34E, NMPM     Sec. 18, T205, R34E, NMPM     Sec. 18, T205, R34E, NMPM     Sec. 10, T205, R34E, NMPM     Junked and Abandoned       Incrin Company     Lea County, New Mexico     Production)     IO-7-75     Sec. 10, T20, Sec. 12, Sec. 12, Sec. 14, Sec. 12, Sec. 14, Sec. 12, Sec. 14,		Yates	7900			Oil Well	18, T2OS, R34E, NMP1	
Inter     Number     Location, Unit Ltr.     Type     Date     Depth     Depth     Record of Completion;       Inter     Sec., Try, Range     2315 FSL & 2310 FWL Unit K     P & A (Junked     7-16-75     Junked     3556     Yates     Junked and Abandoned       Sec. 18, T205, R34E, NMPH     before     P & A     Junked     7-16-75     P & A     3556     Yates     Junked and Abandoned       Incri     County, New Mexico     Production)     Production;     10-7-75     Sec. 16, T205, R34E, NMPH     Sec. circ.     7" 24# set @ 32# cemente       Incri     County, New Mexico     Production;     10-7-75     Sec. circ.     4" Sec. circ.     4" Sec. circ.       Sec. 10, T205, R34E, NMPH     before     P country, New Mexico     Production;     10-7-75     Sec. circ.     10-7-75       Incri     County, New Mexico     Production;     No. circ.     10-7-75     Sec. circ.     10,5% liner       Sec. 10, Contractor:     N/A     Sec. circ.     Sec. circ.     5% Sec. circ.     5% Sec. circ.       Sec. 10, Contractor:     N/A     Sec. circ.     Sec. circ.     5% Sec. circ.     5% Sec. circ.       Sec. 10, Se		:			10-18-75	Producing	FSL & 2295 FWL Unit	
Inter     Number     Location, Unit Ltr.     Type     Date     Depth     Record of Completion;       Inter     Sec., T.w., Range     2310 FML Unit K     P & A (Junked     Spudded     Completed     TD     PBTD     Zone(s)     Record of Completion;       In Federal #8     2310 FSL & 2310 FML Unit K     P & A (Junked     7-16-75     Junked     3556     Yates     Junked and Abandoned       Sec. 18, T2OS, R34E, NMPM     before     P oduction)     10-7-75     10-7-75     States     Junked and Abandoned       Incr:     Wallen     Lea County, New Mexico     Production)     Production)     10-7-75     States     Casing: 16" 32# cemente       Incr:     Wallen     County, New Mexico     Production)     10-7-75     States     Casing: 16" 32# cemente       Incr:     Wallen     County, New Mexico     Production)     10-7-75     States     Casing: 16" 32# cemente       Incr:     Wallen     County, New Mexico     Production)     Inter     States     Casing: 16" 32# cemente       Incr:     Wallen     County, New Mexico     Production)     Inter     States     Casing: 16" 32# cemente       Incr:     Wallen     States     States     States     States     States     States       Incr:     Wallen <t< th=""><th></th><th></th><th>-</th><th>×</th><th></th><th></th><th></th><th></th></t<>			-	×				
Incr         Number         Location, Unit Ltr.         Type         Date         Depth         Depth         Record of Completion;         Record of Completion;           In Federal #8         2310 FSL & 2310 FWL Unit K         P & A (Junked         7-16-75         Junked         3556         Yates         Junked and Abandoned           Sec. 18, T205, R34E, NNFM         before         P & A         Junked         3556         Yates         Junked and Abandoned           Location Company         Lea County, New Mexico         Production)         Production)         10-7-75         3556         Yates         Casing: 16 <sup>th</sup> 32# cemente           Juccion Company         Company         Sec. 18, T205, R34E, NNFM         Production)         Production)         10-7-75         3556         Yates         Junked and Abandoned           Location Company         Lea County, New Mexico         Production)         10-7-75         10-7-75         Sec. 10, 51/10-77         Sec. 10, 51/10-7								
JICT Location, Unit Ltr. Type Date Depth Depth Sec., Trp., Range Spudded Completed TD PBTD Zone(s) Record of Completion; Sec., Trp., Range Spudded Completed TD PBTD Zone(s) Perf(s) and Well Perf(s) And Well Sec. 18, T205, R34E, NMFM before P & A Lea County, New Mexico Production) 10-7-75 Junked S56 Yates Junked and Abandoned recipe Company Sec. 18, T205, R34E, NMFM before P & A Lea County, New Mexico Production) 10-7-75 Junked S56 Yates Junked and Abandoned Sec. 18, T205, R34E, NMFM before P & A Lea County, New Mexico Production) 10-7-75 Junked S56 Yates Junked and Abandoned Sec. 18, T205, R34E, NMFM before Completed To P & A Lea County, New Mexico Production Junction Company Junked Completed To PBTD Zone(s) Yates Junked and Abandoned Sec. 18, T205, R34E, NMFM before Troduction Company Junked County, New Mexico Production Company Junked County, Sec. 19, T205, T	1001		-	-				• •
In Federal #8 Sec., Tarr., Range Sec., Tarr., Range Type Date Spudded Completed TD PBTD Zone(s) Record of Completion; Perf(s) and Well TD Perf(s) and Well Sec. 18, T20S, R34E, NMPM Sec. 18, T20S, R34E, NMPM Lea County, New Mexico Production) Foduction) Sec. 18, T20S, R34E, NMPM Defore Production) Production) Sec. 18, T20S, R34E, NMPM Defore Production) Sec. 10, T20S, R34E, NMPM Sec. 10, T20S, R34E, R35 <p< th=""><th>), •</th><th></th><th></th><th></th><th>2</th><th></th><th></th><th>•</th></p<>	), •				2			•
NumberLocation, Unit Ltr.TypeDateDepthDepthRecord of Completion;107Sec., T-D., RangeSpuddedCompletedTDPBTDZone(s)Record of Completion;n Federal #82310 FSL & 2310 FWL Unit KP & A (Junked7-16-75Junked3556YatesJunked and AbandonedSec. 18, T20S, R34E, NMPMbeforeP & A10-7-7510-7-75Casing: 16" 32# cemente1cor:WallenProduction)Production)10-7-7510-7-75Casing: 16" 32# cemente1cor:WallenYates10-7.510-7.5YatesCasing: 16" 32# cemente1cor:WallenYates10-7.510-7.5YatesYates1ccion CompanySec. 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,	3556 cemented w/100		-	•				
numberLocation, Unit Ltr.TypeDateDepthDepthZone(s)Record of Completion:nrSec., Trp., RangeSpuddedCompletedTDPBTDZone(s)Record of Completion:Perf(s) and Wellan Federal #82310 FSL & 2310 FWL Unit KP & A (Junked7-16-75Junked3556YatesJunked and AbandonedSec. 18, T20S, R34E, NMFMbeforeP & A10-7-7510-7-75Casing: 16" 32# cementeICCT:WallenProduction)Production)10-7-7510-7-75T'' 24# set @ 33sx cmt. circ.Sx cmt. circ.Sx cmt. circ.Sx cmt. circ.Sx cmt. circ.	10.50 liner		· .					
NumerLocation, Unit Ltr.TypeDateDepthDepth107Sec., Twp., RangeSec., Twp., RangeSpudded CompletedTDPBTDZone(s)Record of Completion;an Federal #82310 FSL & 2310 FWL Unit KP & A (Junked 7-16-75Junked3556YatesJunked and AbandonedSec. 18, T20S, R34E, NMPMbeforeP & A10-7-7510-7-75Casing: 16" 32# cementeator:WallenFroduction)10-7-7510-7-75To7" 24# set @ 33	emt. circ.							
Andre, Number Location, Unit Ltr. Type Date Depth Itor Sec., Two., Range Sec., Two., Range Spudded Completed TD PBTD Zone(s) Perf(s) and Well In Federal #8 2310 FSL & 2310 FWL Unit K P & A (Junked 7-16-75 Junked 3556 Sec. 18, T20S, R34E, NMPM before P & A Sec. 18, T20S, R34E, NMPM before P & A Sea County, New Mexico Production) Itor: Wallen County, New Mexico Completed of Completed Completed TD PBTD Zone(s) Itor: Wallen County, New Mexico Production Itor: Wallen County County (County of Completed Completed Completed Completed TD PBTD Zone(s) Itor: Cont. Circ.	4/ set @ 33	,	~					3
Andre, Number Location, Unit Ltr. Type Date Depth Itor Sec., Twp., Range Completed Completed TD PBTD Zone(s) Record of Completion: Perf(s) and Vell In Federal #8 2310 FSL & 2310 FWL Unit K P & A (Junked 7-16-75 Junked Sec. 18, T20S, R34E, NMPM before P & A Lea County, New Mexico Production) Production Production 10-7-75	cmt. circ.				· •			
Andre, Number Location, Unit Ltr. Type Date Depth Sec., Two, Range Sec., Two, Range Sec., Two, Range Sec., Two, Range Spudded Completed TD PBTD Zone(s) Record of Completion; an Federal #8 2319 FSL & 2310 FWL Unit K P & A (Junked 7-16-75 Junked 3556 Yates Junked and Abandoned Dea County, New Mexico Production)	16" 32/ cemente	<i>-</i> -		C/-/-D1				
In Federal #8 Sec. 18, T205, R34E, NMPM In Federal #8 In Federal #8 Sec. 18, T205, R34E, NMPM In Federal #8 Sec. 18, T205, R34E, NMPM In Federal #8 In Federal #8 Sec. 18, T205, R34E, NMPM In Federal #8 In Federal #8 Sec. 18, T205, R34E, NMPM In Federal #8 In Federal #8 Sec. 18, T205, R34E, NMPM In Federal #8 In Federal #8 Sec. 18, T205, R34E, NMPM In Federal #8 In Federal #8 Sec. 18, T205, R34E, NMPM In Federal #8 In Federal #8 Sec. 18, T205, R34E, NMPM In Federal #8 In Federal #8 Sec. 18, T205, R34E, NMPM In Federal #8 In Federal #8 Sec. 18, T205, R34E, NMPM In Federal #8 In Federal #8 Sec. 18, T205, R34E, NMPM In Federal #8 </th <th></th> <th> </th> <th></th> <th></th> <th></th> <th>Production</th> <th>County, New Mext</th> <th>4 m</th>		 				Production	County, New Mext	4 m
name, Number Location, Unit Ltr. Type Date Depth Depth Sec., Two, Range Spudded Completed TD PBTD Zone(s) Record of Completion; an Federal #8 2310 FSL & 2310 FWT Unit V P & A (Tunion 7 16 76		Yates	3556		-01-/	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	18, T205, R34E	
name, Number Location, Unit Ltr. Type Date Depth Depth Record of Completion;	TTAN NHO	/			L L	7 7	FSL & 2310 Fut.	Federal
Wame, Number Location, Unit Ltr. Type Date Date	of Completion;	Zone(s)	hebcu	Completed	Spudded		Sec., Two., Range	vperator
			Denth		Dat	Type	Location, Unit Ltr.	hame,



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WALLEN FEDERAL #8 P&A 10-7-75



## This is the information for Teas Yates Well

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Contractor: Roach & Shepard							
Cable Tool Drilled						1	
cemented w/75 sx 110 by survey).	•					· · · · · · · · · · · · · · · · · · ·	манан Мар
•							
33/2, 33/6-3380. Casing: 8 5/8" 37# Lanueld set a				(Recompleted: 10-3-74)	(R		<u>Derator:</u> Anadarko Production Company
3442-3454, 34 3348, 3356-336				9-25-58	Well TA	County, New Mexi	
3350, 3361-3366,	Yates	3478	3543	10-31-57 4-1-58	Water 10 Injection	2310 FSL & 1980 FEL Unit K Sec. 13, T20S, R33E, NARM	Teas Yates Unit 3-2
Contractor: J. C. Clower	: ;;						•
Cable Tool Drilled							
200 sx around shoe and 200 sx thru perf @ 1410.							<u>Production</u> Company
set @ 3325			3535	(Converted 10-26-54)		Lea County, New Mexico	
5-3535	Yates		3359 DDT5	10-25-54 11-21-54	Water 10 Injection	•	Tezs Yates Unit 2-2
Record of Completion: Perf(s) and Well Construction	Zone(s)	th PBTD	Depth TD 1	Date Spudded Completed	tybe	·, Ra	aror
					7000	Location, Unit Ltr.	lell Name, Number

				-				
		-						
•							•	
Contractor: Cactue Drlg, Corp.							•	
Re-entry by Rotary Tools			•					
Orig. Cable Tool Drilled				•	.,			
ି କରି କରି କରି କରି କରି କରି କରି କରି କରି କର								
44" 10.5# J=55 set @ 3511 with a D. V. tool @ 2813								
cemented w/525 sx cmt.	•		-					
Casing: 8 5/8" 24# set @ 990"	1			ed as well 2-26-75	plete ion w		ī.,	Foduction Company
3399-3406, 3469-74, 3478-	•**			7	Re-entered	Well		Derator: Anadarko
3314-20,	Yates	3506	3536	P & A 12-14-58	11-13-58	Water Injection	Sec. 13, T20S, R33E, NMPM	reas faces outr 3-4
		•						
Contractor: Roach & Shepard							-	
Cable Tool Drilled								
bring cement to surface,				-				· · · ·
Survey show			•				X	
w/400 sx. (Cmt. C 51/1" set @ 3464 ce								
Casing: 8 5/8" set @ 997 cemented							· .	
3342-46, 3353-57, 3388-3406, 3436-44	l	-			•			9
Perfs: 3302-11, 3316-20 3324-34						1		Dperator: Anadarko
Open Hole: 3464-3499	Yates	- - - - - - - - - - - - -	3499	2-25-58	1-7-58	Active 011	1815 FNL & 990 FEL Unit H Sec. 13, T208, R33E, NMPM	icas Yates Unit 3-3
Record of Completions i	Zone(s)	PBTD .	Depth TD	Completed	Date Spudded	Lype	Sec., Twp., Range	acor
						3	Location Unit 1++	Cell Name, Number

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see prugging diagram.					-			
			•					Į
Contractor: Spartan Drly, Co.								
				1				-
Cable Tool Drilled					-			
							· · · ·	
-86.	·····						•	
/100 sx, 200					-		-	•
() () ()								
	•							the second se
Open Hole: 3178 to 3325	-		-		7 0 A /-)0			Production Company
()                 		•	-		- ≻	(P & A)		
Perfs: 1385-86 (squeeze perf)	Yates	3325	3338	3-29-51	2-27-51	Producer	13, T205, R33E, NM	
			· · ·		• • •	110	1980 FNL & 660 FWL Unit E	Teas Yates Unit 8-1
i J				•		•		
Contractor: J. C. Clower		-	•					
Dattig toot atomo				•			-	
	-							
ellar. Ceme								
shoe and 3								•
200 CC-F MkCT & AHT LF 1911YEAN			- <u></u>	-				
							•	rougerrou company
Perfs: 3292 to 3328, 3346 to 3364	•		3482					Jperator: Anadarko
			UDTD	• .			. 1	
Open Nole: 3369 to 3426	Yates	3426	3389	3-30-57	7-21-57	Active Cil	1980 FNL & 1980 FEL Unit G Sec. 13, T20S, R33E, NMPM	ieas lates nult 4-1
	Zone(s)	PBTD	TU	Datardiion				
Record of Completions		Depth .	j De	te .	Smuddad	Туре	Sec., Twp., Range	utor .
							113~ +	Well Name, Number

cll Name, Number	Location, Unit Ltr. Sec. Twp., Range	Туре	Date	Depti		Record of Consultations
			spuaded Completed	TD PBTD	D Zone(a)	Pert (p) a
Teas Yates Unit 8-2	1980 FNL & 990 FWL Unit E Sec. 13. T205. R33F. MMPM	Active 011	5-21-56 7-14-56	3328	Yates	1 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (
		(replacement	(recompreted IN-2/-//)	3410		
Production Company		for 8-1)	•	L L L L L L L L L L L L L L L L L L L		circulated.
						88
•						Cable Tool Drilled
		•				
•						Collinactor: Inomas DELS, Co.
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					and the second	



P 8. A . July, 1956

Well Nome 8 Number:

Teos Yoles Unit 8-1 (APC)

Location:

1980'ENL, GGO'EWL, UNE E Sec.13, T.205 - R.33E

### TOC:

200 sxs thru perf (0) 1385

Csg:

7"csg @ 3178' cm1d w/100 sxs @ shoe.

TD: 3338'

Perfs:

Squeeze perf from 1385-86.



### This is the information for Teas Yates Well

5-3

		-	n e	•					•
		 			<u>.</u>			. *	
	•	· •		-			-		•
			•		•			-* •	
			•••						
Rotary Tool Drilled						-			••
7" @ 13813' w/1350 sxs		•••• ••• •••				-			
13 3/8" @ 3100' v/3500 9 5/8" @ 9000' v/3500									
Casine: 20" A 1400' 4/1900		он <b>та н</b> ал				producing)			
9,454-57. 9,454-57.		• • • • • • • • • • • • • • • • • •		•		shut-in, Bone Springs			
Bone Springs 9,468-14		•••••••		•		(Morrow currently	• *		
Perfs: Morrow 13,294-302, 13,309-	Bone	13800	14948	12-31-62 (M)	70-0C-4	(Dual)	14, T20S, R33E,		
				) ) )	1-20-KJ	Unit C.Gas Producer	FNL & 1980 FWL.	RC #1 660	Mahaffey-Fed. ARC
Contractor. I c class		· ·			₩1997 Par			, ,	
Cable Tool Drilled		*****		•	ан .	recompletion		1. 1. a 1 1 1 1 1 1 1.	-
TIC IN SXS LO PIC,								any	. Louderroll company
Casing: 7" set @ 3370, cemented w/	r so			58 re-entered	(P&A 12-58 11-16-81)	11-16-81		arxo	Operator: Anadarko
Open Hole: 3370-3389	Yates Seven	, yare	0410			•	14, T208, R33E, NYPA	Sec.	- 
		) ) )	2110		12-26-53	E-011 Producer	FNL & 990 FAL, Unit	5-4 233	Teas Yates Unit
Contractor: J. C. Clower					- *· ·			1. 	•
Cable Tool Drilled		~, *~ *** ***		• •				т 22 — 24	
cannant to surrace to t & V.		** *			n na sa				
. Pulled tog and filled w				•				any	Production Company
around shoe plus 370 sx thru a perf	VTAGES				•			ar ko	Derator: Anadarko
		•• •• •• ••		2-21-75)	(P & A 2-2	2 7	County, New Mexico	Lea	
	Yates	3266	3388	9-30-53	8-26-53		FNL & 660 FRL, Unit D,	5-1 660	.eas Yates Unit
	Zone(s)	PBTD	TD	Completed	spudded				:
Record of Completion:		Depth	De	Date		Type	Location, Unit Itr. Sec., Two., Range		ort vane, vumber
	a second seco			YATES UNIT 5-3	THAS YAT				:

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				<b>*</b> 						•
		• • • • • • • • • • • • • • • • • • •	 *%. 							· · ·
Contractor: N/A				-						
Rotary Tool Drilled			-		 	• •		-		<u>e i i i i izrice esp</u> iri
Casing:       8 5/8" @ 950 cemented w/         300 sx.4½"       @ 3426 cemented w/523 sx.         2" Salta lined injection tbg @ 3095			······	rted 5-3-72)	(Converte	Well		• •	Anadarko n Company	Operator: Production
Perfs: 3236-40, 3244-47, 3252-56	Yates	3418	3428	10-28-65	8-1-65	······································	R33E, NMPM	Sec. 14, T20S,		
Contractor: Caetus Drlg. Co.	1 -					-		5 5 7	δ δ1	Teas Yates
Rotary Tool Drilled			<u></u>				-	1997 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -		
£		 · .		- - - -		· · · · · · · · · · · · · · · · · · ·				
5/8" @ 1420 cemented 1rculated).7" @ 3085 " liner w/top @ 2943	Rivers				·				Anadarko n Company	Operator: Production
Perfs: 3137-3250	Yates Seven	3265	3385	9-15-74	1-9-74	Oil Producer	S, R33E, MMPM			
Contractor: J. C. Clower		· • • • • • • • •		•	2			990 FNT & 000	s Unit 5-5	Teas Yates
286. Drilled			~							
: 7" @ 3240 cemente	Rivers		to 3392	eted 8-30-56)	(Recompleted				n Company	Operator:
Open Hol	Yates Seven	3370	3278 deepened	10-29-53	10-4-53	C,Active 1 Oil Producer	FWL, Unit R33E, NMPN	660 FNL & 1650 Sec. 14, T20S,	s Unit 5-2	Teas Yates
Record of Completion; Perf(s) and Well Construction	Zone(s)	Depth .	TD	Date 1 Completed	Spudded	туре	Ka		,	merucor
							Unir Trr. 1	Location, U	, Number	Cell Nume,

L Mina		:			• ••		•	-:	
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÷.,		 							•
	Contractor: N/a	2		•	•			~	-
	Cable Tool Drilled		· <b></b> -	· · · · · · · · · · · · · · · · · · ·	•				
<u> </u>	shoe								
	Casing: 5% @ 3228 w/100 sxs				•				Production Company
	Open Hole: 3202-24		 3	DDTD 3394	id 5-6-77)	(recompleted			· · · · · · · · · · · · · · · · · · ·
en de la composition de la composition La composition de la c	Perfa: 3228-3394	Yates	• • • • • • • • • • • • • • • • • • •	3330	3-18-54	2-13-54	Active Oil Froducer	e. 14, T20S, R33E,	
en e	Contractor: J. C. Clower				•		- -		Teas Yates Int + 10-2
	Cable Tool Drilled								
in the second	Salta lined tbg @ 3204			· · · · · · · · · · · · · · · · · · ·		•			
									<u>بر</u>
<u>्तर</u> ् }	Open Hole: 3294-3338	Seven Rivers			3-6-72)	(converted ;	Well		Joeracor: Anadarko
<del>.</del>	Perfs: 3267-71, 3275-86	5	3338	3338	4-20-54	3-22-54	Water	Sec. 14, T20S, R33E, NAPM	(43 IRCC) 0111C 7-1
	Contractor: J. C. Clower						-		7 7
	Cable Tool Drilled								
bintika	<u>9</u> 1000, 2" tbg				•			.**	· · · · · · · · · · · · · · · · · · ·
	Casing: 7" @ 3280 cemented w/100				•				
	Open Hole: 3280-3420			3420		•	•		berstor: Anadarko
		Rivers							
	• ພ	Yaten		3324	3-10-	2-26-54	Active Oil Producer	2310 FSL & 1960 FWL, Unit K, Sec. 14. T205, R33E,	.eas lates Unit 7-1
	Record of Completion: Perf(s) and Well Construction	Zone(s)	PEN PBTD	TD	Completed	Spudded	٦Å٦	, Twp., Ra	107
1.							Type	Location, Unit Ltr.	ell Hume, Number

ell Hame, Number	Location, Unit Ltr.	Туре		1	•		
itor	., Twp., Ray		Spudded Completed	TD J	en PBTD	Zone(a)	Record of Completion:
Teas Yates Unit 11-1	990 FNL & 2310 FEL, Unit B Sec. 14, T20S, R33E, NAPM	Water Injection	12-19-54 1-28-55	3319	3288	Yates	Open Hole: 3215-3288
Derator: Anadarko Troduction Company		Well	(converted 5-6-72)				o u x.
				. :			lined tbg @ 3145.
•							Cable Tool Drilled
1 1							Contractor: J. C. Clower
- 040 TALES DITT TV-1	Sec. 15, T2OS, R33E, NMPM	Water Injection	6-25-53 8-10-53 (Converted 5-3-72)	3342	1	Yates	Open Hole: 3293-3342
		Well					
· · · · · · · · · · · · · · · · · · ·			-				
			1				
Teas Yates Unit 14-2	2310 FSL & 2310 FEL, Unit J, Sec. 14, T20S, R33E, NMPM	Active Producing Well	(P & A 12-31-54) (Re-spud 6-5-74)	3455		Yates	Casing: 10 3/4" @ 513 w/456 sx, cmt circ. 4½" @ 3455 w/765 sx,
	•			-			
Perator: Anadarko Production Company							Perfs: 3212-3280, 3316-3334
						•	Tools, re-entered
							with Rotary Tools.
				· · · · · · · · · · · · · · · · · · ·	: *		
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Contractor: W.arton Drlg. Co.	<u></u>						•	•
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/ BUTVBY.								
1/55 sx around sho								
5 set a								2
und shoe. Cement co								-
et @ 3210 and cemented				•				
and shoe, Cement circ. 7" 2								
334 and cemented w/620		-			2		•	
Casing: 9 5/8" 36/ K-55 ST & C		-				-		
	<b>.</b>				- To 844			
Perfs: 3222 to 3252, 3258-3264, 3330-50.	Yates		0740	70-01-H		Injection	≞c. 14, T2OS, R33E,	
		-	31.30	6-18-87	1-10-82	Water	2265 FNL & 1425 FEL, Unit	Teas Yates Unit 10-3 2
Contractor: W arton Dilg. Co.		•		•			•	
				•				
-								- - -
3758-62.			· · · · · · · ·			- L May		· · · · ·
3708-11, 3724-27, 3746-49,		-		•	•			
: 3660-63, 3674-81, 3696-	•	•		•	_	•		
2000 . CMC W/ LOU BX CITC 20 SX.						-		
set @ 3830 w/top				-				
cire 200 ax to pit. 51/1 15.50							•	Froduction Company
set @ 3100'. Cmted w/690 sx				•				
200 BX to pit. 7 5/8" 26.4#	Reef				•			1 10.5
t @ 1260'. Cmted w/825 av	Rivers			<b>.</b>		Wall Supply		2
_	Seven		3830	8-31-61	3-31-81	Active	T. Sec. 14. T20S RATE Unit	reas races oute MSM % [ ]
11 Construction	Zone(s)	PBTD	TD	of the second				
Record of Completions		th	Depth	te B	Date	туре	i Ra	
						1	Location, Unit Ltr	Cell Wame, Number
Same in the second second								

TEAS YATES UNIT 5-3 PROPOSED INJECTION WELL





P&A: Dec ,1958 Re-entered II-16-81

AN STRUCTURE AND ALL

a la del la d

Perfs:

### None

All the second second



Perfs: Squeeze perf @ 1500'

# This is the information for Teas Yates Well

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Suber Number	Location, Unit Ltr. Sec., Twp., Rance	Ţyņe	Date	Depth	<u></u>	Record of completion.
			Spudded Completed	TD PBTD	TD Zone(s)	
Tares Cuit R-1	1980 FNI & 660 FAI, Unit E Sec. 13, 1208, R33E, NARM, Lea Co. New Version	Oil Producer (P & A)	2-27-51 3-29-51	3338	Yates	td pe
utor: Anddarko ution Company			(P & A 7-56)	- - - - - - -		Open Hole completion: 3178 to 3325.
						Casing: 7" set @ 3178 cemented w/100 sx, 200 sx squeezed @ 1385-
Non14 17541 010					-	Cable Tool Drilled. Contractor: Spartan Drig. Co.
	Lea Co. New Mexico	Oil Producer active (replacement	5-21-56 (recompleted	3328 deepened	Yates	Open Hole completion: 3252 to 3410.
ator: Anadarko udeion Company		for 8-1)	10-27-77)	3410		at @ 1500
						@ 3252 w/175 sx. 2 7/8" tbg @
						3410. 4 3/4 Open nois 3232 to
				-	e e	Cable Tool Drilled. Contractor: Thomas Driv. Co
Yuces Unit 15-1	1980 ESL & 660 FEL, Unit I, Sec. 14, TZOS, R33E, NMPM, Lea Co. New Mexico	Water Injection Well	6-18-51 (P & A 6-18-51)	3535 3523	Yates	
Juction Company			(re-entered 7-12-74 converted and completed 2-38-75)			0 3/4" s ent. 43 (150 ch
			•			2 3/0 Salta lined tog @ 3191. Cable Tool Drilled, Rotary Tools used on re-entry. Contractor: N/A
1				:	1	
• • • •						

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CREAS PROS
L. 11/6/2455					•				
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		•			•			•	-
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<u> </u>			**** <sup></sup>	*.		-			
	Torrest roacd and Shepard	· · · · · · · · · · · · · · · · · · ·		, •/ ·					
	ed.							•• <i>•</i> ,	
		. ينتد الا في الا							
	inted with 75					•			
	3X (100 SX C17C to 14/ J-55 set @ 3401		••• •••• ••••						
<del></del>	set @ 1001' and cemented with				-		2		· · -
uren	ing: 8	1						-	
						-			
	1368-3379 3376-3362, 3368-3379 3376-3362,		• ••• ••••		10-3-74)				rator: Anadarko
 :	32.70 2210 2220 2220 2220				(recompleted	(rec	Active	Sea CO. Vew Nextco	
. 7	Perfs: 3335-3350, 3361-3366,	Yates	3478	5965	9-25-58)	(TA	Injection	E, MARY,	
					~_1_ <b>5</b> 0	10-31-57	Water	. & 1980 FEL, Unit K	s laces unit 3-2
	Cable Tool Drillad							•	
· · · · ·	Annrovimately 1000 (a		- <b>-</b>	3428					· · · · · · · · · · · · · · · · · · ·
	and and av the a v to a shoe			then to					
	Casing: 5½" 15# set @ 3209			3341					þ
				deeper	-				rator: Anadarko
<u>.                                    </u>	3428.			drilled				Co. New Mexico	
		Yates		3209	8-15-52	6-28-52	Oll Froducer		:
	Cable Tool Drilled.		. <u> </u>		•	<b>1</b> 1 1		שעד ג אאט בבי האיר	s Vaces Unit 10-1
	1397 (circ to surface).			7040					
-	and 300 sx thru D. V. Tool @			then to		4			
	Cemented w/150 sy and 3209		<del></del> 	3350					2
				to					facor: Anadarko
				drilled					
	· ·	Yates		3209	4-14-52	2-27-52	Oil Producer Acitye	Sec. 13, T20S, R33E, NAPM.	
	Perf(s) and Well Construction	Zone(a)	CLRA	UT TO	oompre ceu				s Yares Unir 2-1
	Record of Completion;		Depth	j De	Completed	Spudded .	-7 22	Ra	CACOL
		-				7	TVDA	Location, Unit Ltr.	

A DAY STOL

- Contraction

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×.	lop of cement @ 2770 by survey				·	-			•₩ = • •	
	ented w/55 sx aro									
426	nd K-55 set @ 3									
lre.	sx around shoe, cement ci		• <u> </u>							•
< <u>-</u>	210 and cemented		<u> </u>							
234	•	-	=							
SX (	34 and cemented	****							ылы - тет 	duction Company
	Casing: 9 5/8" 36# X-55 ST &		 							or: Anadarko
3350.	330 to						דוין בררדטוו	New Mexico		
	Perfs: 3222 to 3252. 3258 to	Yates		3426	4-18-82	1-10-82		4, T20S, R33E, Whit G	Sec. 14.	- 4 C C C C C C C C C C C C C C C C C C
	Contractor: J. C. Clower				·					
	Cable Tool Drilled.	:								
	Cemented to surface cellar.									
nd	emented w/620 sx			:						
set	Casing: 54" 14# & 154 J-55 se									
	•		•							uction Company
	3364. JEJE CO 3320 and 3340									
• •				3482				. New Mexico	Lea Co.	
	Open Hole: 3369 to 3426	Yates	PBTD	מצנ	0-00-0/		Active	, T20S, R33E, NMPM,		
			, , ,	3	- 73-0C-8	7-21-57	011 Producer			Yates Unit 4-1
	Contractor: [ ] C [] cuar				•					
	Cable Tool Telalor									
8X	around shoe and 200	-								uction formany
nted	Casing: 54" set @ 3325 cement		•	5000	10 20-14)					
				DDTD	(converted:		Active	مرد	Lea Co.	
	Open Hole: 1327-4535	Yates		3359	11-21-54	10-25-54	To tent on	3, T2OS, R33E, NMPM	•	
truction	Perf(a) and Well Const	Sone(8)					•	R 12 02 2	560 PXT	Yaces Unit 2-2
		3	Depth	1	Date Completed	Spudded	2462	Twp., Rat	Sec.,	1000
						1	Туре	tion; Unit Ltr.	Location,	



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STATES SALES

Perfs:

Squeeze perf from 1385-86

## This is the information for Teas Yates Well 13-2

		<b>-</b> -						
Contractor: J. C. Clower	• •							
к Н Н Н Н			-				-	
Cable Tool Drilled	 	 					· · · · · · · · · · · · · · · · · · ·	
4½° set @ 3397 cemented w/ 375 sx around shoe.	•		•					
			•••					14
100 sx around shoe a								oduction Company
Casing: 7" set @ 3330 cemented w/						injection)		
Perfs: 3150-70, 3210-35, 3265-85, 3332-40, 3356-64, 3367-71.	Yateg Seven Rivers	3377	3397	12-16-53	11-12-53	2	1980 FNI. & 1650 FWL Unit 7, Sec. 14, T20S, R33E, NM2PM	us fares onte D-3
Contractor: J. C. Clower				-				
Cable Tool Drilled	•							· ·
e ga	<u>ک</u>							
sx around shoe and 420 sxs from 1000'.			3392					oduction Company
	Seven		deepened to	eted 8-30-56)	(Recompleted			11101 ·
Open Hole: 3225-3392	Yates	3370	3278	10-29-53	10-4-53	Unit C Active 011	560 FNL & 1650 FWL, Unit C Sec. 14, T208, R333, NMPS	is Yates Unit 5-2
Contractor: J. C. Clower								
Cable Tool Drilled					•		•	
d with P & A.				•				
shoe plus 370 perf @ 1500, P						. •		7
Casing: 511" set @ 3250" w/50 sacks	Rivers			75)	(r a A 2-21-75)		L	orator: Anadarko
Open Hole: 3373-3385	Yates	3266	3388	9-30-53	8-26-53	P & A P & A	County, New Mexico	
<pre>a/ rerr(B) and Well Construction</pre>					•	) 	· 550 第NE & 550 第27 1154 + 3	as Yates Unit 5-1
Record of Completion:	7070	Depth	TD De	e Completed	Date Spudded	Туре	Sec., Two., Range	ator
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	circ. 2 3/8" Salt			-						oduction Company
- Sicilia	Casing: 54" @ 3293 w/350 ex mm			:,	5-3-72)	(Converted	7ell			erator: Anadarko
	Open Hole: 3293-3342	Yates	1	3342	8-10-53	127103	Injection	, T2OS, R33E, NMEY	. 15	
hin				. *		ר ה נו	10 + 0 +	& 660 BELL THATE A	660 FNL	es Yates Unit 12-1
	Contractor: Cactus Drlg Co.	 c					·		• • • • • • •	
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: <u>1999</u> 2013 - 2	rerts: 3137-3250	Seven					roducer		Sec. 14,	
			2766	2225	9-15-74	7-9-74	D Active 011	X 066 9		as Yates Unit 5-5
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	Cable Tool Drilled		 ,-				recompletion			
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		Yates	3389	3416	1-22-54	12-24-53	Unit 2011 Producer	200 ENT,	Sec. 14.	
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6	Mirt JVV SX. CHC. CitC									•		
C^C	VI + 100 20% 11-40 38		<b></b>		9-6-73	Kespud 9-6-73				ALL A		oduction
1000	<b>t</b> .	<b>-</b>		•	)	;	Andra werr			1HXO	r: Anadarko	erator:
Surface	Open Hole: Plugged back to Su	td Seven Rivers	Surface	6, JUU	9-10-56		۲.	e, napm	. 10, T20S,			
						3-15-57	P & A	Unit P	330 FSL & FEL Ur	14-1 3	Unic	as Yates
	Contractor: Cactus Drlg. Co.	ان بر				-						
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	Cable Tool Drilled										-	
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	Casing: 54" 14# a 3975 ant 4					(//				ny		Jduction
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Contractor: Warton Drlg. Co.			-							
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J-55 set @ 1260 . Cmt	Rivers							NTEX		
Casing: 10 3/4" 40.5# ST & C, R-3	Seven		3830	18-16-0	10-110-1	Supply Well	ec. 14, T2OS, R33E,	تې se		
			>	0 31 01	3-31-81	Active Warer	FNL & 1330 FWL, Unit	1330	ies Unit WSW #1	as Yates
Rotary Tool Drilled				20 <sup>10</sup> N						-i
/" @ 13813' w/1350 sxs								10. B		
5/8" @ 9000' w/2620		-		. *		,	-			
Casing: 20" @ 1400' w/1900 sxs 13 3/8" @ 3100' w/3500 sxs			>	-				. •	بر د ۲	
	•	-			- - - -	producing)		• •	•	
9408-14, 9416-18, 9422-24, 9430-34, 9442-50 9452-24,		-		(M)		shut-in, Bone Springa				
3, Bone Sp	Morrow			12-31-62	•	currently			Arco	era cor :
Perts: Morrow, 13294-302, 13309-317 13423-429, 13526-528	Springs,	10000	1 1 0	(BS)		(Dual) (Morrow	14, 1205, R33E, NMPM	0 6 0		
		1 1 2 8 0 0	14948	12-6-62	4-30-62	Gas Producer	& 1980 FAZ, Unit C	, ≯rj	-Fed. ARC #1	haffey-Fed.
Record of Completion: Perf(a) and Gall Monstruction	Zone(s)	PBTD	TD	Completed	Spudded		, <u>red</u> ., Kange			
		th	Denth	Date	Da	Туре	- 5	Secat	ie, venoer	erator
							:			



## TEAS YATES UNIT 13-1 P & A 10-8-81







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Perfs: None Jason Kellahin W. Thomas Kellahin Karen Aubrey James B. Grant KELLAHIN AND KELLAHIN Attorneys at Law El Patio - 117 North Guadalupe Post Office Box 2265 Santa Fe, New Mexico 87501 August 1.3, 1982

Telephone 982-4285 Area Code 505

Mr. Joe D. Ramey OIL CONSERVATION DIVISION Post Office Box 2088 Santa Fe, New Mexico 87501

Re: Anadarko Production Company Teas Yates Unit Lea County, New Mexico



Dear Mr. Ramey:

Please find enclosed our application on behalf of Anadarko Production Company for expansion of their Teas Yates Waterflood Project previously approved by Order R-4077.

Please set this matter for hearing on the September 15, 1982 docket.

Anadarko is requesting the following:

- 1. To drill and commence injection into the following new injections wells:
  - (a) Teas Yates Unit 8-4; 2250' FSL & L-13 975' FWL, Sec. 13, T20S, R33E, NMPM; L-13
  - (b) Teas Yates Unit 13-2; 10' FSL & 660' FWL, M ~ // Sec. 11, T20S, R33E, NMPM;
  - (c) Teas Yates Unit 1-2; 1980' FNL & 10' FWL, E-18 Sec. 18, T20S, R34E, NMPM.
- 2. To convert the following wells from producing to injection wells:
  - (a) Teas Yates Unit 5-3; 1980' FNL & 1650' FWL; F 14 Sec. 14, T20S, R33E, NMPM;
  - (b) Teas Yates Unit 2-1; 1980' FNL & 1980' FWL **F-13** of Sec. 12, T20S, R33E, NMPM.

## KELLAHIN and KELLAHIN

Mr. Joe D. Ramey August 13, 1982 Page 2

For each injection well, the proposed average injection volume is to be approximately 250 BWIPD and the maximum volume should not exceed 400 BWIPD. The water injection is to be a mixture of water produced on the unit and make-up water from the Seven Rivers reef formation produced from our Teas Yates Unit WSW #1. The proposed maximum injection pressure is to be 1150 psig (see enclosed step rate test).

The injection zone is to be the Yates sand which is approximately 200' thick at this point and approximately 3240' deep.

Currently there are no sources of drinking water on the lease.

The proposed stimulation program is simply a matrix acid job consisting of approximately 5000 gallons of 20% NE-FE acid.

3. To drill the following four new producing wells at unorthodox well locations:

Teas Yates Unit 11-2, 1250' FNL & 1000' FEL, Sec. 14, T20S, R33E, NMPM. (TD 3405')

Teas Yates Unit 8-3, 2490' FNL & 10' FWL, Sec. 13, T20S, R33E, NMPM. (TD 3425')

Teas Yates Unit 2-4, 2520' FSL & 1980' FWL, Sec. 13, T20S, R33E, NMPM. (TD 3500')

Teas Yates Unit 2-3, 1200' FNL & 1980' FWL, Sec. 13, T20S, R33E, NMPM. (TD 3490')

Very trul Thomas

WTK:rb Enclosure cc: Mr. Dan Kernaghan, Anadarko

ENĘRG	AND MINERALS DEPARTMENT	CONVERTION DIVISION     POST OF CERTING     STATE LAND CERTING     SAMPLE PERMIT	FORM C-108 Rovised 7-1-81
APPLICA	TION FOR AUTHORIZATION TO INJECT	2	INFRICE STORY STRATE
. 1.	Purpose: 🛛 Secondary Recovery Application qualifies for adm	inistrative approval? 🛛 🔀	MO Diemani D'Sporage
11.	operator:	DEUTION COMPANY	
		197, Nidland, Toxas 7	
	Contoct party: 12. Dan Kerne	Phon Phon	e: (915) 682-1666
<b>III.</b>	Hell date: Complete the data reproposed for injection	quired on the reverse side on. Additional sheets may	of this form for each well be attached if necessary.
IV.	Is this an expansion of an exist: If yes, give the Division order (	ing project? Kyes number authorizing the proj	Lono R-4077
۷.	Attach a map that identifies all injection well with a one-half m well. This circle identifies the	ile radius circle drawn aro	
• VI.	Attach a tabulation of data on al penetrate the proposed injection well's type, construction, date of a schematic of any plugged well i	zone. Such data shall inc drilled, location, depth, r	lude a description of each ecord of completion, and
VII.	Attach data on the proposed opera	ation, including:	
	the receiving formation 5. If injection is for dispo at or within one mile o	en or closed; imum injection pressure; te analysis of injection fl n if other than reinjected oval purposes into a zone n of the proposed well, attac ation water (may be measure	uid and compatibility with produced water; and ot productive of oil or gas
•VIII.	Attach appropriate geological dat detail, geological name, thickness bottom of all underground sources total dissolved solids concentrat injection zone as well as any suc injection interval.	ss, and depth. Give the qui s of dranking water (aquifa tions of 10,000 mg/l or less	ologic name, and depth to rs containing waters with s) overlying the proposed
IX	Describe the proposed stimulation	program, if any.	
Χ.	Attach appropriate logging and te with the Division they need not b		well logs have been filed
XI.	Attach a chemical analysis of fre available and producing) within o location of wells and dates sampl	one mile of any injection of	
XII.	Applicants for disposal wells mus examined available geologic and e or any other hydrologic connectio source of drinking water.	ingineering data and find no	p evidence of open faults
XIII.	Applicants must complete the "Pro	of of Notice" section on th	he reverse side of this form.
XIV.	Certification		
	I hereby certify that the leforms to the best of my knowledge and b	elief.	
	Name: Thomas Kellarin	Title	Attorney
	Signature:	Date:	August 16, 1982
submit	e information required under Secti- ted, it need not be duplicated an earlier submittal. <u>If not at</u>	d resubmitted. Please show	the date and circumstance rative Order MFX -492
	GUTIDA: Uriginal and one copy to ct office.		the appropriate Division

Carlo Carlo Carlos Carlos

Puse 2677

July 9, 1982 AUG 16 1982

Tom Kellahin 500 Dan Gaspar Santa Fe, New Mexico 87501

Dear Sir:

Attached is the information necessary to file for permission to drill water injection well #1-2 on our Teas Yates Unit in Lea County, New Mexico. The proposed well is to be a replacement water injection well for Teas Yates Unit 1-1 which will be plugged. The proposed injection well is to be located 1980'FNL & 10'FWL, Unit E, Sec.18, T20S, R34E, NMPM, and is to be drilled to a total depth of approximately 3500'.

The proposed average injection volume is to be 250 BWIPD and the maximum volume should not exceed 400 BWIPD. The water injected is to be a mixture of water produced on the unit and make-up water from the Seven Rivers reef formation produced from our Teas Yates Unit WSW #1. The proposed maximum injection pressure is to be 1150 psig (see enclosed step rate test).

The injection zone is to be the Yates Sand which is approximately 170' thick at this point and 3330' deep.

Currently there are no sources of drinking water on the Lease.

The proposed stimulation program is simply a matrix acid job consisting of approximately 5000 gallons of 20% NE-FE acid.

Sincerely, Mark E. 7

Mark E. Fesmire Senior Production Engineer

MEF:gks

"lel' Mame, Number Production Company Production Company Tens Yates Unit 3-2 Teas Yates Unit 3-2 Parator. perator: Anadarko Anadarko Sec. 13, T2OS, R33E, NMPM 1815 FNL & 990 FEL Unit H Sec. 13, T20S, R33E, NMPM Lea County, New Mexico 2310 FSL & 1980 FEL Unit Sec., Twp., Range Location, Unit Ltr. Injection Well Well Active Oil Water TABLE OF ALL WELLS WITHIN '2 MILE RADIUS OF PROPOSED WIW 1-2 Type TA 9-25-58 1-7-58 10-31-57 (Recompleted: 10-3-74) Spudded Date Completed 4-1-58 2-25-58 3499 3543 B Depth 3478 PBTD Yates Yates Zone(s) Perfs: Perfs: Open Hole: 3464-3479 Casing: Contractor: Roach & Shepard Record of Completion: Contractor: Roach & Shepard Cable Tool Drilled Cable Tool Drilled Casing: Perf(s) and Well Construction 3302-11, 3316-20, 3324-34, 3342-46, 3353-57, 3362-76, 3335-3350, 3361-3366, 3386-3420, 3442-3454, 3460-3478, 3318-3348, 3356-3362, 3344-3372, 3376-3380. 3388-3406, 3436-44. 8 5/8" 32# Lapweld set 0 8 5/8" set @ 997 cemented w/500 sx. Survey showed @ 3110 by survey). cement to within 100' of w/400 sx. cmt. circ. 5½" 14# J=55 set @ 3491 sx (100 sx circ. to pit). surface, dumped 15 sx co bring cement to surface. 5½" set @ 3464 cemented and cemented w/75 sx (top 1001' and cemented w/255 *);* 

	.)/*							
		-						
Contractor: J. C. Clower								· · · · ·
Cable Tool Drilled		÷						
surrace.				• .	-			
allar. C	-				•			
(a) 3369 cemented w/620 sm around shoe and 375 sm								þ
• 5k" 14# k 15k# 1-9	-		-					Operator: Anadarko
Perfs: 3292 to 3328, 3346 to 3364.			3482	 -		Well		
Open Hole: 3369 to 3426	Yates	3426	3389 DDTN	8-30-57	7-21-57	Active Oil	1980 FNL & 1980 FEL Unit G, Sec. 13, T20S, R33E,	Teas Yates Unit 4-1
					- <b></b>			
Contractor: Cactus Drlg Co.								
Re-entry by Rotary Tools	÷ .					,		
Orig. Cable Tool Drilled								
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•								
442 10.34 J=33 Sec @ 3311 with a D. V. Tool @ 2813								
					-			
cemented w/525 sx, cmt.								
8 5/8" 7/# cor A				TUJECTION WEIT 7-72-13	rujection			
3478-84.	-			ied as	Re-completed	<i>~</i> ∿,		Operator: Anadarko
: ,		-		7	Re-entered	Well		
	Yates	3506	3536	P & A	11-13-58	Water	990 FNL & 1650 FEL Unit B Sec. 13. T205. R33F. NMPM	Teas Vates Unit 3-4
Pe	Zone(s)	PBTD	ΤD	Completed	Spudded		Sec., Twp., Kange	- PELICUE
Record of Completiont		ith	Depth	Ø	Date	Туре	Location, Unit Ltr.	lell Name, Number

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Contractor: H. P. Holmes							
Rotary Tool Drilled	······	· • • • • • • • • • • • • • • • • • • •					
				2			
Casing: 8 5/8" 24# J-55 set @ 1514 cemented w/250 sx.				injection well 5-15-75	æei t		<u>Production</u> Company
<u>Open Hole</u> : 3267-3525	Yates	1	3525	8-14-58 9-5-58 (convert to water	Water Injection	1980 FNL & 660 FNL Unit E Sec. 18, T20S, R34E, NMPM	leas Vates Unit 1-1
Contractor: Cactus Drlg Co.				÷.			
7" set @ 3381' w/330 sx 4½" liner from 3112 to 3612 cemented w/50 sx.							
Casing: 9 5/8" set @ 1500' cemented w/500 sx. cmt. circ.							<u>Production</u> Company
	Yates		3612	12-9-72 6-18-73	Active Oil Well	2310 FNL & 2310 FWL Unit F Sec. 18, T20S, R34E, NMPM	Rallen Federal #6
Record of Completion: Perf(s) and Well Construction	Zone(s)	Depth ) PBTD	De TD	Date Spudded Completed	Туре	Location, Unit Ltr. Sec., Twp., Range	ett Nine, Number peritor
1 Page 3							•

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Contractor: N/A				,					•
Cable Tool Drilled		<b>-</b>		ан <sub>1</sub>					
cmt. circ. 4½" liner from 2950'-3582' cemented w/60 sx.							1. 1.		
<b>m m</b>						• •			<u>Production</u> Company
ພິ	Yates		3562	3-7-76	10-18-75	Producing Oil Well	5L & 2295 FWL Unit K 3, T20S, R34E, NMPM	2310 FSL Sec. 18,	Tallen Federal #8X
Contractor: N/A	-								
Cable Tool Drilled									
4½" 10.5# liner from 2081 to 3556 cemented w/100 sx.						-			
7" 24# set @ 3300 w/i150 sx cmt. circ.									Operator: Wallen Production Company
ິພ		• ••• ••• ••• •		10-7-75	•	Production)	County, New Mexico	Lea Cou	
	Yates		3556	Junked P & A	7-16-75	P & A (Junked before	5L & 2310 FWL Unit K 3, 1205, R34E, NMPM	• •	Callen Federal #8
Record of Completion: Perf(s) and Well Construction	Zone(s)	Depth PBTD	TD	te Completed	Date Spudded	Туре	lon, Unit Ltr. Twp., Range	Sec., Twp	Derator



in in a set

## WALLEN FEDERAL #8 P&A 10-7-75





The following data points were obtained in a step rate test that was run on 5-26-82 and was witnessed by Mr. Edd See with the Oil Conservation Division.

<u>PT. #</u>	FINAL SURFACE PRESSURE (psig)	FINAL RATE (BWIPD)
1	960	190
2	1010	270
3	1035	368
4	1050	421
5	1060	467
6	1070	508
7	<b>105</b> 5	576
8	1065	665
9	1115	705
10	1155	823
11	1165	934
12	1185	1054
13	1195	1122
14	1205	1234

The recorded rates and pressures are after a 45 minute stabilization time.

Points 1, 7, 8 and 9 appear to be bad data.

Using points 2, 3, 4, 5, 6 and 10 in a least squares analysis, the equation for the best fit line is:

BWIPD = -3577.9179 + 3.8126 (Pressure)  $r^2 = .9995$ 

Using points 11, 12, 13 and 14 in a least squares analysis, the equation for the best fit line is:

BWIPD = -7545.4286 + 7.2686 (Pressure)  $r^2 = .9768$ 

Equating the two lines and solving for the intersection will give the surface fracture pressure:

-3577.9179 + 3.8126 (P) = -7545.4286 + 7.2686 (P) P = 1148.01 psig

Calculated Fracture Pressure = 1148 psig

ANADARKO PRODUCTION COMPANY



July 7, 1982

OIL CONSCIENCE SANTA FE 1672 EUR

Tom Kellahin 500 Don Gaspar Santa Fe, New Mexico 87501

Dear Sir:

Attached is the information necessary to file for permission to convert to water injection Teas Yates Unit Well #2-1 in Lea County, New Mexico. The well is located 1980'FNL & 1980'FWL of Sec.12, T20S, R33E, NMPM.

The proposed average injection volume is to be approximately 250 BWIPD and the maximum volume should not exceed 400 BWIPD. The water injected is to be a mixture of water produced on the unit and make-up water from the Seven Rivers reef formation produced from our Teas Yates Unit WSW #1. The proposed maximum injection pressure is to be 1150 psig (see enclosed step rate test).

The injection zone is to be the Yates sand which is approximately 200' thick at this point and approximately 3240' deep.

Currently there are no sources of drinking water on the lease.

The proposed stimulation program is simply a matrix acid job consisting of approximately 5000 gallons of 20% NE-FE acid.

Sincerely,

Mark E. Fesmire Senior Production Engineer

MEF:gks

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Contractor: Roach & Shepard							
CADLE TOOT DETITED							
@ 3110 by survey).						х - Х.,	
14# J-55 set @ 34							
1001' and cemented sx (100 sx circ. to							
Casing: 8 5/8" 32# Lapweld set #							ä.
3372, 3376-3380.				(Recompleted: 10-3-74)			Operator: Anadarko
3318-3348, 3356-3362, 3368-				TA 9-25-58	Well	ry, New Mexico	
Perfs: 3335-3350, 3361-3366, 3386-	Yates	3478	3543	10-31-57 4-1-58		Sec. 13, T20S, R33E, NMPM	ieas lates unit 3-2
Contractor: J. C. Clower							
Cable Tool Drilled				4 r.			
sx thru perf @ 1410.							Production Company
200 sx around shoe and 200	-						Operator: Anadarko
			DDTD	(Converted 10-26-54)	Well	Lea County, New Mexico	
Open Hole: 3325-3535	Yates		3359	10-25-54 11-21-54	Water	FNL & 330 FWL Un	leas Yates Unit 2-2
Pe	Zone(s)	PBTD	ID	Spudded Completed		Sec., IwD., Kange	JELGIOF
Record of Completion.	1	Depth	De	Date	Туре	Location, Unit Ltr.	Cell Name, Number
		WIW 2-1	OF PROPOSED WIW 2-1	7 MILE RADIUS	TWREF OF ALL WELLS WITHIN		
					יום איז ויפוו		•

Tille

Location.         Date Subject         Date Subject         Date Th         Depth Th         Depth Th         Depth Th         Zanc(D)         Record of Completion: Fact(O) and Wall Construction         (J)           3         315 FNJ 6 90 FIL Unit F Sec. 13, 1026, RUS, NOFF         Active 011         1-7-58         2-25-58         3499         Vatea         Dem Hole:         346-3490           a         Sec. 13, 1026, RUS, NOFF         Mathe 011         1-7-58         2-25-58         3499         Vatea         Dem Hole:         346-3490           a         Sec. 13, 1026, RUS, NOFF         Mathe 011         1-7-58         2-25-8         3499         Vatea         Dem Hole:         346-3490           a         Sec. 13, 1026, RUS, NOFF         Mathe 011         1-7-58         2-25-76         Sec. 13, 1026, RUS, 1316-20, 13316-20, 13316-20, 1336-40, 1392-40, 1392-40, 1392-40, 1392-40, 1392-40, 1392-40, 1392-40, 1392-40, 1392-40, 1393-40, 1392-40, 1393-40, 1392-40, 1393-40, 1392-40, 1393-40, 1392-40, 1393-40							-		
Loontion, Unit Ler.         Type         Snudled         Completed         Depth         Zane(a)         Record of Completion:         Type         Snudled         Completion:         Tane(b)         Zane(b)         Record of Completion:         Snudled         Snudled:         Snuded:									
Boostion, Unit Lit:         Type         Date Spidded         Depth To         To         Path         Completed         To         Path         Zone(s)         Record of Completion: Part(s)         Record of Completion: Part(s) <th>Cactus Drlg,</th> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Cactus Drlg,								
Location, Duit Lrr.         Type         Date Studded         Depth Completed         Depth TO         PETD         Zone(s)         Record of Completion: Ref() and Wall Construction         (1)           3         185: NL 4 90 FE: Unit H Sec: 13, 1205, 833E, NNPH o         Active Oil         1-7-35         2-25-58         3499         Tates         Dem.Inle: 3464-3499         Errer: 3302-11, 3316-20, 3326-36, 3336-360, 3354-46         3302-11, 3316-20, 3326-36, 3386-360, 3354-46         3302-11, 3316-20, 3326-36, 3386-360, 3354-46         Sec: 13, 1205, 833E, NPPH         Value         Errer: 3302-11, 3316-20, 3326-36, 3386-460, 3354-57, 3386-360, 3354-46         Sec: 13, 1205, 833E, NPPH         Value         Casting: 6 3/8" ast 0 997 cemented secured viewer to authout 000 of cement es to within 100 of secured 7-22-74         Il-13-58         P 6 A Re-completed as Injection vall 2-26-75         3536         3506         Vates 3330-30, 3336-30, 3336-30, 3336-30, secure viewer to autface.           0         Sec. 13, 1205, 833E, NPPH Value         Il-13-58         P 6 A Re-completed as Injection vall 2-26-75         3536         3506         Vates 3330-30, 3336-30, 3336-30, 3336-30, 3336-30, secure viewer to autface.           0         Sec. 13, 1205, 833E, NPP Value         Il-13-58         P 6 A Re-completed as Injection vall 2-26-75         3536         3506         Vates 3339-306, 3069-74, 3076-0, 3026-0, secure to with a D, vol (# 281) cement de vis25 as cat.           0         Sec. 13, 1206, 1302-10, 1304-0, 1									•
Location, Unit Ltr.         Type         Date Dudged         Depth Completed         Depth TD         Zone(6)         Record of Completant Part(6)         Record of Completant           3         1815 FRL 6.900 FEL Unit H Sec. 11, T206, R335, NNPH Wall         1-7-53         2-23-58         3499         -         Faces         Open Indge: 3464-3499           0         Sec. 11, T206, R335, NNPH Wall         1-7-58         2-23-58         3499         -         Faces         Open Indge: 3464-3499           0         Sec. 11, T206, R335, NNPH Wall         1-7-58         2-23-58         3499         -         Faces         Open Indge: 3464-3499           0         Sec. 13, T206, R335, NNPH Wall         1-7-58         2-23-76         3499         -         -         Sec. 13, T206, R335, Signe: 6.997         Cemented surf&sec, Aumped 15, Web Adde: -4.06-76           4         990 FRL & 1650 FEL Unit B         Katter         11-13-58         P & A Re-completed ac surf&sec, Aumped 15, Web Adde: -4.06-76         3536         3536         3536         3536         3536         3536         3536-11, 331(-20, 3336-50, 3336	Cable Tool								
Location, Unit Ltr.TypeDateDepthZone(a)Record of Completion:N(3)31615 FRL 6 900 FEL Unit HActive 011 $1^{-7-58}$ $2-25-58$ $3099$ $vates$ $vates$ $perf(a)$ $add Wall Construction01015 FRL 6 900 FEL Unit HActive 0111^{-7-58}2-25-583099vatesperf(a)add Wall Construction31615 FRL 6 900 FEL Unit HActive 0111^{-7-58}2-25-583099vatesperf(a)add Wall Construction33col 15, TOOS, NJSE, NUEMWell1^{-7-58}2-25-583099vatesperf(a)300-11, 310-20, 3324-40,336-26, 3355-57, 3382-36, 3362-36,3362-36, 3382-36, 3382-36, 3362-36, 3382-36, 3382-36, 3382-36, 3382-36, 3382-36, 3392-36, 3492-36, 3392-36, 3492-36, 3392-36, 3392-36, 3392-36, 3392-36, 3392-36, 3392-36, 3392-36, 3392-36, 3492-37, 3372-31, 3392-36, 3492-37$	300' by survey,								
Location, Unit Lite.         Type         Date         Depth         Depth         Zone(s)         Record of Completion         Record of Completion           3         1815 FNL 6 900 FEL Unit H         Active 011 $1-7-58$ $2-25-38$ $3499$ Tates         Dem Hole: $302-11$ , $3012-10$ , $302-14$ , $302-46$ , $335-57$ , $335-46$ 5         Ect. 15, T205, R33E, N09M         Well $1-7-58$ $2-25-38$ $3499$ Tates         Dem Hole: $302-11$ , $311-20$ , $332-46$ , $335-57$ , $335-46$ 0         Sec. 15, T205, R33E, N09M         Well $1-7-58$ $2-25-38$ $3499$ Tates         Dem Hole: $302-11$ , $3116-20$ , $3324-46$ , $335-57$ , $3352-56$ , $3362-46$ , $3352-57$ , $3352-56$ , $3362-46$ , $3352-57$ , $3352-56$ , $3362-46$ , $3352-57$ , $356-56$ , $3362-46$ , $3352-57$ , $356-56$ , $3506-56$ , $516^{-100}$ eact ( $9.46$ , $940^{-10}$ , $345-46$ Cassing: $5.50^{-10}$ set ( $9.90^{-1}$ cassing: $8.50^{-10}$ set ( $9.90^{-1}$ case) $2.50^{-10}$ set ( $9.90^{-1}$ case)	ited w/880 sx. TOC @	-	-					· · · ·	
Location. Unit Ltr.         Type         Date         Depth TD         Depth TD         Depth TD         Zone(s)         Record of Completion:         (1)           3         1815 FNL 6 990 FEL Unit H Sec. 13, T205, R335, NUPM Sec. 13, T205, R335, NUPM	a D. V. tool (	-			-				
Josetion, Unit Lit.     Type     Date     Depth     Performance     Record of Completion:     Record of Completion:       3     1815 FNL 6 900 FDE Unit H     Active 011     1-7-53     2-25-58     3499     Yates     Depth     Perfer 3002-11, 3316-20, 3326-44, 3358-57, 3362-46, 3338-306, 3436-44       0     Sec. 13, T205, R33E, NNPM Well     1-7-53     2-25-58     3499     -     Yates     Depen Indle: 3464-3499       0     Sec. 13, T205, R33E, NNPM Well     1-7-53     2-25-58     3499     -     -     Sec. 13, T205, R33E, NNPM Well     1-7-53     2-25-76       0     Sec. 13, T205, R33E, NNPM Well     1-7-53     2-25-78     3499     -     -     Sec. 13, T205, R33E, NNPM Well     Sec. 13, T205, R33E, NNPM Well       4     990 FNL & 1650 FEL Unit B     Unter     11-13-58     P & A     3536     3506     Yates     Casing: 6 5/8" set 6 997 cemented w/ 500 or set 5 within 100° of set 6 within									
Jocation, Dait Lite.     Type     Date     Depth     Jone (s)     Record of Completion: Perf(s)     Record of Completion: Perf(s)       3     1815 FNL 6 990 FEL Unit H Sec. 13, T205, R33E, NNPM     Active 011     1-7-38     2-25-58     3499	cemented w/525 sx					C			
Location, Unit Lrr.     Type     Date Spudded     Depth Completed     Depth TD     PHTD     Zone(s)     Record of Completion:       3     1815 FRL 6 960 FEL Unit H Sec. 13, T205, R33E, NMPM     Hell     1-7-38     2-25-58     3499     -     Yates <u>Open Hole</u> : 3464-3499       0     Sec. 13, T205, R33E, NMPM     Hell     1-7-38     2-25-58     3499     -     Yates <u>Open Hole</u> : 3464-3499       0     Sec. 13, T205, R33E, NMPM     Hell     1-7-38     2-25-58     3499     -     Yates <u>Open Hole</u> : 3464-3499       0     Sec. 13, T205, R33E, NMPM     Hell     1-7-38     2-25-58     3499     -     Yates <u>Open Hole</u> : 3464-3499       0     Sec. 13, T205, R33E, NMPM     Hell     1-13-58     Yates     Sec. 13, T205, R33E, NMPM     Hell     Injection     11-13-58     P & A       2     Sec. 13, T205, R33E, NMPM     Kater     11-13-58     P & A     3536     3506     Yates     Perfs: 3306-11, 3314-20, 3326-34, 3392-91, 3392-91, 3392-91, 3392-91, 3392-91, 3392-91, 3392-91, 3392-91, 3392-91, 3392-91, 3392-91, 3392-91, 3469-74, 3478-	9 5/8" 7/# cot @				d as ell 2-26-75	Re-complete injection w			Production Company
Location, Unit Ltr.     Type     Date Sec. Trp. Range     Depth TD     Depth TD     Cone(s)     Record of Completion: Perf(s)     Record of Completion: Perf(s)     Record of Completion: Perf(s)     Record of Completion: Perf(s)     Record of Completion:     Record of Completion:     Record of Completion:       3     1815 FNL 6 900 FPL Unit H Sec. 13, T205, R332, NMPM     Weil     1-7-55     2-25-58     3499     Yates     Dem Hole:     302-46, 335-27, 3362-76, 3382-406, 3354-74, 3383-406, 335-27, 3362-76, 3383-406, 3356-43     Soc. 13, T205, R338, Mer     Soc. 13, T205, R338, Mer     Weil     Li-7-55     2-25-58     3499     Yates     Dem Hole:     302-46, 335-27, 3362-76, 3382-406, 3356-43     3326-76, 3383-406, 3356-73, 3362-76, 3383-406, 3356-44     Soc. 13, T205, R338, Mer     Soc. 13, T205, R338, Mer     Not set (soc. Circ.) Soc. 13, T205, R335, NRPM     Not set (soc. Circ.) Soc. 13, T205, R335, NRPM     Not set (soc. Circ.) Soc. 11-13-58     P & A Soc. 13, T205, R335, NRPM     Soc. 11-13-58     P & A Soc. 13, T205, R335, NRPM     Soc. 11-13-58     P & A Soc. 13, T205, R335, NRPM     Soc. 11-13-58     P & A Soc. 13, T205, R335, NRPM     Soc. 11-13-58     P & A Soc. 13, T205, R335, NRPM     Soc. 11-13-58     P & A Soc. 13, T205, R335, NRPM     Soc. 11-13-58     P & A Soc. 13, T205, R335, Soc. 57, 3325-91, Soc. 13, T205, R335, Soc. 57, 3325-91,     Soc. 13, T205, Soc. 57, 3325-91,     Soc. 13, T205, Soc. 57, 3325-91,	9-3406, 3469-74,				7-22-74	Re-entered			Dperator: Anadarko
Location, Unit Ltr.         Type         Date         Depth         Depth         Record of Completion:           3         1815 FNL & 990 FEL Unit H         Active Oil         1-7-58         2-25-58         3499         Yates         Open Hole:         3002-11, 3306-20           0         Sec. 13, T205, R33E, NNFM         Well         1-7-58         2-25-58         3499         Yates         Open Hole:         302-11, 3306-20           0         Sec. 13, T205, R33E, NNFM         Well         1-7-58         2-25-58         3499         Yates         Open Hole:         302-11, 3306-20           0         Sec. 13, T205, R33E, NNFM         Well         1-7-58         2-25-58         3499         Yates         Open Hole:         302-11, 3306-20           0         Sec. 13, T205, R33E, NFM         Well         1-7-58         2-25-58         3499         Yates         Open Hole:         302-10, 3308-3406, 3436-305           0         Sec. 13, T205, R33E, NFM         Well:         NetWidth         Sec. 13, 3308-3406, 3436-20         338-3406, 3436-20         338-3406, 3436-20         338-3406, 3436-20         342-66, 3353-57         3388-3406, 3436-20         500 sst. Survey set 0.936, 0.937         500 sst. Survey set 0.946, 0.946         500 sst. Survey set 0.946, 0.946         500 sst. Survey set 0.946, 0.946         5	3306-11, 3314-20, 3340-46, 3360-67,	Yates	3506	3536	& A 2-14-58	11-13-58	Water Injection Well	. 13, T20S,	leas faces unic 3-4
Location. Unit Ltr.     Type     Date     Depth     Campleted     TD     PBTD     Zone(s)     Record of Completion:     (2)       3     1815 FNL & 990 FEL Unit H Sec. 13, T205, R33E, NNPM     Active Oil     1-7-58     2-25-58     3499     Yates     Open Hole:     346-3499       0     Sec. 13, T205, R33E, NNPM     Well     1-7-58     2-25-58     3499     Yates     Open Hole:     346-3499       0     Sec. 13, T205, R33E, NNPM     Well     1-7-58     2-25-58     3499     Yates     Open Hole:     346-3499       0     Sec. 13, T205, R33E, NNPM     Well     1-7-58     2-25-58     3499     Yates     Open Hole:     346-3499       1     1-7-58     2-25-58     3499     -     -     332-76,       338-3406, 3436-44     Sec. 13, T205, 3325, 73, 3352-77, 3324-76,     3388-3406, 3436-44     Sec. 10, 3342-46, 3353-57, 3362-76,       0     Sec. 13, T205, 74, 74, 74, 74, 74, 74, 74, 74, 74, 74		-							
Location, Unit Ltr.     Type     Date     Depth     Depth     Zone(s)     Record of Completion:       3     1815 FNL & 990 FPL Unit H Sec. 13, T205, R33E, NMPM     Active 011     1-7-58     2-25-58     3499     Yates     Open Hole:     3464-3499       o     sc. 13, T205, R33E, NMPM     Well     1-7-58     2-25-58     3499     Yates     Open Hole:     3464-3499       o     sc. 13, T205, R33E, NMPM     Well     1-7-58     2-25-58     3499     Yates     Open Hole:     3464-3499       o     sc. 13, T205, R33E, NMPM     Well     1-7-58     2-25-58     3499     Yates     Open Hole:     3464-3499       central:     sc. 13, T205, R33E, NMPM     Well     1-7-58     2-25-58     3499     Yates     Open Hole:     3464-3499       o     sc. 13, T205, R33E, NMPM     Well     1-7-58     2-25-58     3499     Yates     Open Hole:     3464-3499       sc. 13, T205, R33E, MPM     Well     1-7-58     2-25-58     3499     Yates     Open Hole:     3464-50, 332-76, 3362-76, 3382-77, 3362-76, 3382-76, 3382-76, 3382-76, 3382-76, 5388-5406, 3436-44       sc. survey schwed     schwed	Roach &		- <u></u>						
Location, Unit Ltr.     Type     Date Date Sec Twp., Range     Depth TD     Depth PBTD     Zone(s)     Record of Completion: Parf(s) and Well       3     1815 FNL & 990 FEL Unit H Sec. 13, T2OS, R33E, NMPM Sec. 13, T2OS, R33E, NMPM Hell     Active Oil     1-7-53     2-25-58     3499     Yates     Open Hole:     364-3499       0     Sec. 13, T2OS, R33E, NMPM Sec. 13, T2OS, R33E, NMPM     Well     1-7-53     2-25-58     3499     Yates     Open Hole:     364-3499       0     Sec. 13, T2OS, R33E, NMPM Sec. 13, T2OS, R33E, NMPM     Sec. 13, T2OS, R33E, NMPM     1-7-53     2-25-58     3499     Sec. 13, T2OS, R33E, NMPM     Sec. 13, T2OS, R33E, Sec. 13, T3OS, R35E, Sec. 13, T3OS, Sec. 13, T2OS, Sec. 14	ar ag	2							
Location, Unit Ltr.     Type     Date Spudded     Depth Completed     Depth TD     Depth PBTD     Zone(s)     Record of Completion: Parf(s) and Well       3     1815 FNL & 990 FEL Unit H Sec. 13, T205, R33E, NMPM     Active Oil     1-7-53     2-25-58     3499	Tool Drilled	-		· · ·	·-				
Location, Unit Ltr.       Type       Date       Depth       Sec., Tup., Range       Record of Completion:         3       1815 FNL & 990 FEL Unit H Sec. 13, T2OS, R33E, NMPM       Active Oil       1-7-53       2-25-58       3499       Yates       Open Hole: 3464-3499         0       Sec. 13, T2OS, R33E, NMPM       Well       1-7-53       2-25-58       3499       Yates       Open Hole: 3464-3499         0       Sec. 13, T2OS, R33E, NMPM       Well       1-7-53       2-25-58       3499       Yates       Open Hole: 3464-3499         0       Sec. 13, T2OS, R33E, NMPM       Well       1-7-53       2-25-58       3499       Yates       Open Hole: 3464-3499         0       Sec. 13, T2OS, R33E, NMPM       Well       1-7-53       2-25-58       3499       Yates       Open Signe: 3302-11, 3316-20         3388-3406, 3436-3436-3336-3436-3338-3406, 3436-3436-3338-3406, 3436-3436-3436-3436-3436-3436-3436-3436	Sut					-			
Location, Unit Ltr.TypeDateDepthDepthZone(s)Record of Completion: Parf(s) and Well31815 FNL & 990 FEL Unit H Sec. 13, T2OS, R33E, NMPM Sec. 13, T2OS, R33E, NMPM WellActive Oil Hell1-7-582-25-583499YatesOpen Hole: 3464-34990Sec. 13, T2OS, R33E, NMPM Sec. 13, T2OS, R33E, NMPM Sec. 13, T2OS, R33E, NMPM WellHell1-7-582-25-583499YatesOpen Hole: 3464-34990Sec. 13, T2OS, R33E, NMPM Sec. 13, T2OS, R33E, NMPM Well1-7-582-25-583499YatesOpen Hole: 3464-34990Sec. 13, T2OS, R33E, NMPM Sec. 13, T2OS, R33E, NMPM Well1-7-582-25-583499YatesOpen Hole: 3464-34990Sec. 13, T2OS, R33E, NMPM Sec. 13, T2OS, R33E, NMPM Sec. 13, T2OS, R33E, NMPM Sec. 13, T2OS, R33E, NMPH Sec. 14, T2	o within 10 dumped 15								
Location, Unit Ltr.       Type       Date       Depth       Zone(s)       Record of Completion:         3       1815 FNL & 990 FEL Unit H       Active 011       1-7-58       2-25-58       3499       Yates       Open Hole:       3464-3499         5       Sec. 13, T20S, R33E, NMPM       Well       I-7-58       2-25-58       3499       Yates       Open Hole:       3464-3499         5       Sec. 13, T20S, R33E, NMPM       Well       I-7-58       2-25-58       3499       -       Yates       Open Hole:       3464-3499         5       Sec. 13, T20S, R33E, NMPM       Well       Sec. 13, T20S, R33E, NMPM       Well       -       -       3388-3406, 3436-3436-3332-57         5       Sec. 13, T20S, R33E, MMPM       Well       Sec. 13, T20S, R33E, NMPM       Well       -	sx. Survey	-					. 1		
Location, Unit Ltr.TypeDateDepthZone(s)Record of Completion: Parf(s) and Well31815 FNL & 990 FEL Unit H Sec. 13, TZOS, R33E, NMFM Sec. 13, TZOS, R33E, NMFM WellActive 0il Well1-7-582-25-583499YatesOpen Hole: 342-46, 3353-57 3342-46, 3353-57 3388-3406, 3436-0Casing: 6 5/8" set @ 997	3464								
Location, Unit Ltr.TypeDateDepthZone(s)Record of Completion: Parf(s) and Well31815 FNL & 990 FEL Unit H Sec. 13, T20S, R33E, NMPM Sec. 13, T20S, R33E, NMPM WellActive Oil Well1-7-58 Vall2-25-58 Vall3499 VallYatesOpen Hole: 942-46, 3353-57 3388-3406, 3436-	8 5/8" set @ 997								· · · ·
Location, Unit Ltr.TypeDateDepthZone(s)Record of Completion: Parf(s) and Well31815 FNL & 990 FEL Unit H Sec. 13, T20S, R33E, NMPMActive Oil Well1-7-58 Well2-25-58 Location3499YatesOpen Hole: 9342-46, 3353-570	3300-3400, 3430-44								
Location, Unit Ltr.TypeDateDepthRecord of Completion:Sec., Twp., RangeSpuddedCompletedTDPBTDZone(s)Perf(s) and Well1815 FNL & 990 FEL Unit HActive Oil1-7-532-25-583499YatesOpen Hole: 3464-3499Sec. 13, T20S, R33E, NMPPMWellVatesVatesOpen Hole: 3464-3499YatesOpen Hole: 3464-3499	3342-46, 3353-57,					 - -		2	Operator: Anadarko Production Company
Location, Unit Ltr.     Type     Date     Depth       Sec., Twp., Range     Spudded     Completed     TD     PBTD     Zone(s)     Perf(s) and Well       1815 FNL & 990 FEL Unit H     Active 011     1-7-53     2-25-58     3499     -     Yates     Open Hole:     3464-3499		-					WETT	129 1200,	
on, Unit Ltr. Type Date Depth Twp., Range Spudded Completed TD PBTD Zone(s) Perf(s) and Well	llole: 3464-3499	Yates	!	3499		1-7-58	ve	FNL & 990	Teas Yates Unit 3-3
	of Completion: Perf(s) and Well	Zone(s)	PBTD	TD	Completed	Spudded	+3 20	Twp., Ra	ator
							Type		ell Name, Number

S.

Number         Losetion, Tute: Tree         Tree         Studied         Completed         To         Part         Zene(D)         Benord of Completion: To           States         1900 DEL & 1000 PEL UNIC disting         Active OLI         7-21:57         8-30-57         339         326         Yates         Dem: Mail On           State: Name: Audit of Completion         1900 DEL & 1000 PEL UNIC disting         Active OLI         7-21:57         8-30-57         339         326         Yates         Dem: Mail On           State: Stat	Type         Spudded         Completed         Type         Spudded         Completed         Type         Specth         Zene(b)         Record of Completion:           13. 1725, N3DE, NMM         Active 011         7-21-57         8-30-57         DJBS         34.26         Yatee         Open Holg:         3292         24.26         24.26         Parti:         3292         24.26         Parti:         3292         24.26         Parti:         3292         24.26         24.26         24.26         Parti:         3292         24.26         24.26         24.26         24.26         24.26         24.26         24.26         24.26         24.26         24.26         24.26         24.26         24.26         24.26         24.26         24.26         24.26         24.26 <th></th> <th></th> <th></th> <th></th> <th>۰ ۱ ۱ ۱ ۱ ۱</th> <th></th> <th>ž</th> <th></th> <th></th>					۰ ۱ ۱ ۱ ۱ ۱		ž		
Jumb         Jumb <th< th=""><th>Theor.         Date         Depth Trop         Depth PRID         Depth PRID         Depth PRID         Record of Completing: Furtheling         Record of Completing           13, 1205, R33E, NGM         011 13, 1205, R33E, NGM         1727-51 13, 1205         3-29-51 13, 120         338         3325         Vates         Refig: 1385-46 (squeeze per My/100 mit e)         See Plugging diagram.           13, 1205, R33E, NGM         [F 6 A)         P 6 A 7-56         338         3325         Vates         Refig: 1378 to 3325           13, 1205, R33E, NGM         [F 6 A)         P 6 A 7-56         See Plugging diagram.         See Plugging diagram.</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th<>	Theor.         Date         Depth Trop         Depth PRID         Depth PRID         Depth PRID         Record of Completing: Furtheling         Record of Completing           13, 1205, R33E, NGM         011 13, 1205, R33E, NGM         1727-51 13, 1205         3-29-51 13, 120         338         3325         Vates         Refig: 1385-46 (squeeze per My/100 mit e)         See Plugging diagram.           13, 1205, R33E, NGM         [F 6 A)         P 6 A 7-56         338         3325         Vates         Refig: 1378 to 3325           13, 1205, R33E, NGM         [F 6 A)         P 6 A 7-56         See Plugging diagram.         See Plugging diagram.									
Number         Description, Valle Lett.         Type         Description         Openh.         Description         Description <thdescription< th=""> <thdescription< th=""> <th< td=""><td>Trion. Didi Lir:.     Type     Snuded     Completed     To     Parth     Record of Completion: Part(s) and Weil Con       NN &amp; 1900 FEL UNIT 13, 17205, 8352, NNMM     Antive 041     7-21-57     6-30-57     DJBD DJBD     3422     3422     Snu(c)     Part(s) and Weil Con       NN &amp; 1900 FEL UNIT 13, 17205, 8352, NNMM     Gasing: Sin 144 &amp; 154 Log Subscription     7-21-57     6-30-57     DJBD DJBD     3422     Snu(c)     Yates     Dpen Hole; 1329 to 3328, 3346       NN &amp; 1900 FEL UNIT 13, 17205, 8352, NNM     Gasing: Sin 144 &amp; 154 Log Scription Glue and 37 Change I     2-27-51     3-29-51     3338     3325     Yates     Gasing: Sin 144 &amp; 154 Log Scription Glue and 37 Change I     Scription Glue and 37 Change I     Contractor: J. C. Closer       NM &amp; 660 FML UNIT E     011 Cr &amp; A)     2-27-51     3-29-51     3338     3325     Yates     Metfas: 1352-86 (equeese po glue 1378 to 3325       NM &amp; FE &amp; N/T (F &amp; A)     F &amp; A 7-55     F &amp; A 7-55     F &amp; A 7-55     Scription Glue 3025     Gasing: 7" set 0 3178 to 3325       NM &amp; FE &amp; N/T (F &amp; A)     F &amp; A 7-55     F &amp; A 7-55     F &amp; A 7-55     Scription Glue 3025     Gasing: 7" set 0 3178 to 3325       Statistic     F &amp; A 7-55     F &amp; A 7-55     F &amp; A 7-55     Scription Glue 3025     Gasing: 7" set 0 3178 to 3325       Statistic     F &amp; A 7-55     F &amp; A 7-55     Scription Glue 3025</td><th>2</th><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<></thdescription<></thdescription<>	Trion. Didi Lir:.     Type     Snuded     Completed     To     Parth     Record of Completion: Part(s) and Weil Con       NN & 1900 FEL UNIT 13, 17205, 8352, NNMM     Antive 041     7-21-57     6-30-57     DJBD DJBD     3422     3422     Snu(c)     Part(s) and Weil Con       NN & 1900 FEL UNIT 13, 17205, 8352, NNMM     Gasing: Sin 144 & 154 Log Subscription     7-21-57     6-30-57     DJBD DJBD     3422     Snu(c)     Yates     Dpen Hole; 1329 to 3328, 3346       NN & 1900 FEL UNIT 13, 17205, 8352, NNM     Gasing: Sin 144 & 154 Log Scription Glue and 37 Change I     2-27-51     3-29-51     3338     3325     Yates     Gasing: Sin 144 & 154 Log Scription Glue and 37 Change I     Scription Glue and 37 Change I     Contractor: J. C. Closer       NM & 660 FML UNIT E     011 Cr & A)     2-27-51     3-29-51     3338     3325     Yates     Metfas: 1352-86 (equeese po glue 1378 to 3325       NM & FE & N/T (F & A)     F & A 7-55     F & A 7-55     F & A 7-55     Scription Glue 3025     Gasing: 7" set 0 3178 to 3325       NM & FE & N/T (F & A)     F & A 7-55     F & A 7-55     F & A 7-55     Scription Glue 3025     Gasing: 7" set 0 3178 to 3325       Statistic     F & A 7-55     F & A 7-55     F & A 7-55     Scription Glue 3025     Gasing: 7" set 0 3178 to 3325       Statistic     F & A 7-55     F & A 7-55     Scription Glue 3025	2								
Number         Description, Null ftr.         Type         Speaked Sec.         Oppth Th         Desch Th         Desch Th<	rton. Dift Ltr. Type <u>Spudded Completed</u> TD <u>PBTD</u> Zone(b) Recrd of Completing: TD P. Hange RW & 1980 FEL Unit d Active 011 7-21-57 8-00-57 DJBS 13, T205, R35E, NMMP (ell) 7-21-57 8-00-57 DJBS 14, T205, R35E, NMMP (ell) 7-21-57 8-00-57 DJBS 15, T205, R35E, NMMP (ell) 7-21-57 9-51 3442 3462 2011 15, T205, R35E, NMMP (2 & A) P & A 7-55 22.751 3-29-51 3338 32.55 Yates 2014 Status end 37. 15, T205, R35E, NMMP (2 & A) P & A 7-55 22.751 3-29-51 3338 32.55 Yates 2014 Line end 37. 15, T205, R35E, NMMP (2 & A) P & A 7-55 22.751 3-29-51 3338 32.55 Yates 2014 Status end 37. 15, T205, R35E, NMMP (2 & A) P & A 7-55 22.751 3-29-51 3338 32.55 Yates 2014 Status end 37. 15, T205, R35E, NMMP (2 & A) Status end 37. 15, T205, R35E, SMMP (2 & A) Status end 37. 15, T205, R35E, SMMP (2 & A) Status end 37. 15, T205, R35E, SMMP (2 & A) Status end 37. 15, T205, R35E, SMMP (2 & A) Status end 37. 15, T205, R35E, SMMP (2 & A) Status end 37. 15, T205, R35E, SMMP (2 & A) Status end 37. 15, T205, R35E, SMMP (2 & A) Status end 37. 15, T205, R35E, SMMP (2 & A) Status end 37. 15, T205, R35E, SMMP (2 & A) Status end 37. 16, T205, R35E, SMMP (2 & A) Status end 37. 16, T205, R35E, SMMP (2 & A) Status end 37. 17, T205, R35E, SMMP (2 & A) Status end 37. 18, T205, R35E, SMMP (2 & A) Status end 37. 19, T205, R35E, SMMP (2 & A) Status end 37. 19, T205, R35E, SMMP (2 & A) Status end 37. 19, T205, R35E, SMMP (2 & A) Status end 37. 19, T205, R35E, SMMP (2 & A) Status end 37. 19, T205, R35E, SMMP (2 & A) Status end 37. 19, T205, R35E, SMMP (2 & A) Status end 37. 19, T205, R35E, SMMP (2 & A) Status end 37. 19, T205, R35E, SMMP (2 & A) Status end 37. 19, T205, R35E, SMMP (2 & A) Status end 37. 19, T205, R35E, SMMP (2 & A) Status end 37. 19, T205, R35E, SMMP (2 & A) Status end 37. 19, T205, R35E, SMMP (2 & A) Status end 37. 19, T205, R35E, SMMP (2 & A) Status end 37. 19, T205, R35E, SMMP (2 & A) Status end 37. 19, T205, R35E, SMMP (2 & A) Status end 37. 19, T205, R35E, SMMP (2 & A) Status end 37. 19, T205, R35E, SMMP (2	-								
Long Valuer         Longtion, Unit Lite:         Type         Studied         Completed         Parts         Zane(A)         Record of of Completion:           Yales         1940         Fill 1940         1940         Fill 1940         Active Oil         7-21-57         339         3426         Yales         Depth         Sec. 13, TDOS, R33; Nerr         Weill         7-21-57         339         3426         Yales         Dem.No.e i 1950         Studied         Completed         TD         TD         2000         Nates         Dem.No.e i 1950         Studie         1960         Studie         1970         1970         Nates         Dem.No.e i 1970         Studie	rt. Trys. Marge rr. Trys. Trys. Marge rr. Trys. Marge rr. Trys. Trys. Marge rr. Trys. Try		-							
Number         Locetion, Wilt Ltr.         Type         Snudded         Completed         Depth         Depth         Depth         Depth         Snuck         Record of Completents:           Ystes         1990 FML 6 1990 FFL Unit d Artive 011         7-21-57         6-30-57         339         342         Ystes         Yst	rton, Just Ler. Type Date Depth Spudded Completed TD PBTD Zone(s) Record of Completion: TD PST 5 1960 FE Unit C Active Oil 7-21-57 8-30-57 3080 3426 Yates <u>Den Hole</u> 3390 to 3426 <u>Perfs</u> : 3292 to 3328, 3346 <u>State</u> 2395 completion: 13. T205, N32E, NNCPN Wall. E Oil 13. T205, N32E, NNCPN (F 6 A) FX 660 FR. Unit E Oil 13. T205, N32E, NNCPN (F 6 A) FX 6 60 FR. Unit E Oil 13. T205, N32E, NNCPN (F 6 A) FX 6 60 FR. Unit E Oil 13. T205, N32E, NNCPN (F 6 A) FX 6 60 FR. Unit E Oil 13. T205, N32E, NNCPN (F 6 A) FX 6 60 FR. Unit E Oil 13. T205, N32E, NNCPN (F 6 A) FX 6 60 FR. Unit E Oil 13. T205, N32E, NNCPN (F 6 A) FX 6 60 FR. Unit E Oil 13. T205, N32E, NNCPN (F 6 A) FX 6 60 FR. Unit E Oil 13. T205, N32E, NNCPN (F 6 A) FX 6 A 7-56 FX 0 FX									
Number         Loopetion, Unit Ltr.         Type         Spuided         Completed         The part of Completion:           Yates Gif: 4-1         1900 FIL 1005, R33E, NMPH         Wall         7-21-57         9-30-57         Tasse         T	Theory, Unit Ler.     Type     Shudded     Completed     TD     Part (a)     Record of Completion: Fart(a) and Wall Con       13.     T201, NMPH     Wall     7-21-57     B-30-57     B190     3426     Yates     Open Hole: 1369 to 3426       13.     T201, 833E, NMPH     Wall     7-21-57     B-30-57     B190     3426     Yates     Open Hole: 1369 to 3426       13.     T203, 833E, NMPH     Wall     7-21-57     B-30-57     B190     3482     Second of Completion: B100     Second of Completion: Farita: 3292 to 3338, 3346       13.     T203, 833E, NMPH     Wall     1-21-57     B-30-57     B190     Second of Completion: B100     Second of Completion: Farita: 369 to 3426       13.     T203, 833E, NMPH     Wall     011     2-27-51     3-29-51     3338     3325     Yates     Dentialine: and 70 contractor: J. C. Clower       13.     T203, 833E, NMPH     P & A 7-55     P & A 7-55     Sa339     3325     Yates     Dential: 3178 to 3325       13.     T204 of C & A)     P & A 7-55     P & A 7-55     Sa5     See plugging diagram.       13.     T205, 8132, NSPH     P & A 7-55     Sa5     Sae plugging diagram.		- - - - -		•					·
Surve.         Number         Location, Unit Lite.         Type         Sounded         Completed         Depth         Depth         Depth         Depth         Depth         Record of Completion:           Yates         Unit 4-1         1990 ENL & 1980 ENL Unit d Active 011         7-21-57         9-90-57         309         34.26         Yates         Open Holds: 309 to 32.6         Perfs: 309 to 32.8         Make         Perfs: 309 to 32.8         Make 10.6         1.6         Perfs: 309 to 32.8         Make 10.6         Make 10.6 <td< td=""><td>rton, Unit Lrr. Type Suuded Committeed TD PRD Zone(s) Record of Completion: TD PRD 2000(s) PDD Zone(s) PDD ZONE(s)</td><th></th><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	rton, Unit Lrr. Type Suuded Committeed TD PRD Zone(s) Record of Completion: TD PRD 2000(s) PDD Zone(s)			-						
Number         Location, With Ltr.         Type         Sourced Source         Depth Type         Depth Type         Depth Type <thdepth th="" type<="">         Depth</thdepth>	riion, Unit Life. Type Date Depth Record of Completion: TD PNTD Zone(s) Record of Completion: FNL 5 1960 FEL Unit 6 Active 011 13. T205, R335, NMEM Well 13. T205, R335, NMEM Vell 13. T205, R335, NMEM Vell 13. T205, R335, NMEM Vell 13. T205, R335, NMEM Vell 14. 2-27-51 3-29-51 3338 332.5 Vates Den Hole: 1385-86 (squeeze per vell) of a 322.5 Jan 14. Completion of a 1385-86 (squeeze per vell) of a 322.5 Vates Den Hole: 1385-86 (squeeze per vell) of a 322.5 Jan 14. Completion: 13. T205, R335, NMEM Vell 13. T205, R335, NMEM Vell 14. 2-27-51 3-29-51 3338 332.5 Vates Dente Hole: 1385-86 (squeeze per vell) of a 323.5 Clower set for a 323.5 Clower set for a 325.5 Clower set for									
Altre         Number         Location, Unit Ltr.         Type         Sate         Depth (Dom/Leted         Depth (Dom/Leted         Depth (Dom/Leted         Depth (Dom/Leted)         Depth (Dom/Leted)         Depth (D	riton, Unit Litr. Type Date Depth 2006 EL Unit d Artive 011 7-21-57 8-30-57 3089 3422 9425 7 The Part Sign of Completion: Purf(s) and Well Completion: Purf(s) and Well Completion: Purf(s) and Well Completion: 13, T205, R33E, NMEM 4411 01 7-21-57 8-30-57 3462 9422 9422 9422 9422 9422 9422 9422 9		*							
Number         Descriven, Number         Type         Date         Descriven, Number         Descriven, Numer         Descriven, Number	rtion, Unit Ltr. Type $\frac{Deth}{Sbudded} \frac{Completed}{Completed} \frac{TD}{PTD} \frac{Prot}{PTD} \frac{2 \text{ one}(s)}{PTD} \frac{\text{Record of Completion;}}{TD} \frac{Prot}{PTD} \frac{Prot}{PTD} \frac{2 \text{ one}(s)}{PTD} \frac{Prot}{PTD} \frac{Prot}{PTD$									
Number         Constitut, litt.         Type         Date Sudded         Depth (Dimpleted)         Depth (Dimpleted)         Depth (Dimpleted)         Zone(s)         Record of Completion: (P.F.F(s) and Well Contraction: P.F.F(s) and Well Contraction: (P.F.F(s) and Well Contraction: P.F.F(s) and P.F.F(s) and P.F.F(s) P.F.F(s) 1985-86 (equeers per Section Company         Record of Completion: P.F.F(s) 1985-86 (equeers per Section Company         P.F.F(s) 1985-86 (equeers per Section Company           Value         P.F.F(s) 1985-86 (equeers per Section Company           Value         P.F.F(s) 1985-86 (equeers per Section Company	r. Type., Range     Type     Date     Depth     Zone(s)     Record of Completion; PMT     Record of Completion; Parf(s) and Well Completion;       NNPN Vell     7-21-57     8-30-57     3389     3426     Yates     Open Hole; 3369 to 3426       13, T205, R33E, NNPM Vell     7-21-57     8-30-57     3389     3426     Yates     Open Hole; 3292 to 3328, 3346       FXL & 660 FML Unit E     011     2-27-51     3-29-51     3-29-51     3338     3325     Yates     Casing: 37 test 0 Intractor; J. C. Clower       FXL & 660 FML Unit E     011     2-27-51     3-29-51     3-39     3325     Yates     Perfs: 1385-86 (aqueeze perfs: 1385-86 (aquee		:							
Number         Location, Unit Lite.         Type         Spudded         Completed         TD         Zone(a)         Record of Completion: FpTF         Zone(b)         Record of Completion: FpTF           Yates         Unit 4-1         1900 FbL & 1900 FEL Whit d Active 011         7-21-57         8-30-57         3389         34.26         Yates         Open. Hola:         3396 to 3426         Perfl         Zene(b)         Record of Completion: FpTf(c)         Mail Con           1207:         Anaderko section Company         1300 FbL & 1900 FEL Whit d Active 011         7-21-57         8-30-57         3389         34.26         Yates         Open. Hola:         3396 to 3426         Perfle:         3396 to 3426         Perfle:         3396 to 3426         Perfle:         3396         34.27         Perfle:         3396 to 3426         Perfle:         3396 to 3426         Perfle:         1396 to 3426         Perfle:         1396 to 3426         Perfle:         3396         34.27         Second of 57	rten, Unit Ler. Type Date Depth TD PBTD Zone(s) Record of Completion; r. Typ., Range TD PBTD Zone(s) Rate Depth To Parf(s) and Well Com Record of Completion; r. Typ., Range TD PBTD Zone(s) Status Perfs: 3292 to 338, 3346 - Perfs: 3292 to 3328, 3346 - Perfs: 3292 to 3328, 3346 - Status Status									
Number         Location, Unit Litr.         Type         Jace Depined         Depin FU         Depin FU         Depin FU         Zone(s)         Record of Completion; Furf(s) and Wall Con Purf(s) and Wall Con Purf(s)           Yates Unit 4-1         1980 FEL Unit d Active 011         7-21-57         8-30-57         3389         3426         Yates         Open Hole; 3292 to 3328, 3346           LOCE: Anadarko Sec. 13, T205, R33E, NMEM         Wall         7-21-57         8-30-57         3492         3426         Yates         Open Hole; 3369 to 3426           LOCE: Anadarko Sec. 13, T205, R33E, NMEM         Wall         7-21-57         8-30-57         3399         3426         Yates         Open Hole; 3369 to 3426           Vares Unit 4-1         1980 FEL Unit 4         Active 011         7-21-57         8-30-57         3399         3426         Yates         Open Hole; 3169 to 3426           Location Company         Sec. 13, T205, R33E, NEM         Wall         0.1         2-27-51         3-29-51         3338         3325         Yates         Cable Tool Drilled Contractor; J. C. Clower           LOD: Anaderio Definition Company         1980 FEL NUMIT E Sec. 13, T205, R33E, NEM         Producer         Producer         Producer         Producer           Vares Unit 8-1         1980 FEL NUMIT E Sec. 13, T205, R33E, NEM         Producer	teton, Unit Ler.TypeDateDepth SpuddedDepth PBTDZone(a)Record of Completies: PBTDPart (a)Record of Completies: PETDPart (a)Record of Completies: PETDPart (a)Record of Completies: PETEPart (a)Record of Completies: PETE(a) and Well Con Perfs: 3392 biologicalRecord of Completies: PETEPart (a)Record of Completies: PETE: 3392 biologicalRecord of Completies: PETE: 3393 bi	Spartan Drlg, C						-		
Surve         Number         Location, built Ltr.         Type         Studied         Completed         Inperturble         Depth         Zone(a)         Record of Completion; Parf(a) and Well Con           Yares         1980 FKL & 1980 FEL Unit d Active Oll         7-21-57         8-30-57         3389         3426         Yates         Depth         Zone(b)         Parf(a) and Well Con           LEDE:         Anadurko         Sec. 13, T206, R33E, NNPM         Well         7-21-57         8-30-57         3389         3426         Yates         Depth Ellis:         3392         Sec. 13, T205, R32E, NNPM         Well         2-27-51         3389         3426         Yates         Depth Ellis:         3395 ceasuries w/list         6         6         6         6         6         6         6         6         6         6         6         6         6         6	reion, Unit Lrr.TypeDateDepthRecord of Completion: PBTDZone(s)Record of Completion: Purf(s) and Wall ComRNL & 1980 FEL Unit d 13, T20S, R33E, NNPM7-21-578-30-573389 34923426YatesOpen Hole: Sprn3399 to 3426RNL & 1980 FEL Unit d 13, T20S, R33E, NNPM7-21-578-30-573399 34923426YatesOpen Hole: Sprn3399 to 3426Record of Completion: Purf(s) and Wall Com 13, T20S, R33E, NNPM7-21-578-30-573399 34923426YatesOpen Hole: Sprn3492FNL & 660 FML Unit E 13, T20S, R33E, NNPMOil Producer2-27-513-29-5135383325YatesCable Tool DrilledFNL & 660 FML Unit E 13, T20S, R33E, NNPMOil Producer2-27-513-29-5135383325YatesPerfs: Domine138-86 (squeeze per Gasing: 7" set 0 3178 conset gias-86, 200 sr and gias-86.									
Number         Location, Unit Lrt.         Type         Jate         Depth         To         Part(s)         Record of Completion; Pr.f(s) and Well Con           Yates Unit 4-1         1900 FNL & 1980 FEL Unit d Active 011         7-21-57         8-30-57         DDB 3482         DDB 3482         DPEn Hole; 3069 to 3426         Perfs: 3292 to 3128, 3364 to 3426           ictor:         Anadarbo         Sec. 13, T20S, R33E, NMPM         Well         7-21-57         8-30-57         DDB 3482         3426         Yates         Open Hole; 3069 to 3426           iction Company         Sec. 13, T20S, R33E, NMPM         Well         7-21-57         8-30-57         DDB 3482         3426         Perfs: 3292 to 3328, 3346 i action Company           iction Company         Sec. 13, T20S, R33E, NMPM         Well         7-21-57         8-30-57         DB 3482         Sec. 13, T20S, R33E, 329 to 3328, 3346 i action company         Contractor:         J.6 Clower           Yates         Unit 8-1         1980 FNL 6 60 FNL Unit 8         011         2-27-51         3-29-51         3338         3325         Yates         Cable Tool Drilled Contractor:         Contractor:         J.78 to 3325           iction Company         Sec. 13, T20S, R33E, NPM         Penducer         Penducer         Penfs: 1385-86 (equeese penducer         Sec. 13, T20S, R325, 200 sx ad         S	rtion, Unit Ltr. Type <u>Spudded Completed</u> <u>TD</u> <u>PBTD</u> Zone(s) Record of Completion: <u>PBTD</u> Zone(s) Record of Completion: <u>Parf(s) and Well</u> Con 13, T205, R33E, NMPM Well 13, T205, R33E, NMPM Vell 13, T205, R33E, NMPM Call 13, T205, R33E, NMPM Call 13, T205, R33E, NMPM Call 13, T205, R33E, NMPM Call 14, T205, R33E, NMPM Call 15, T				~					
Number         Location, With Lrt.         Type         Date         Date         Depth         Record of Completion; Particl and Wall Con           Yates         Unit 4-1         1980 FEL Whit d Active 041         7-21-57         8-30-57         3389         3426         Yates         Den Hole; 3059 to 3426           Intr         Sec. 13, T20S, R33E, NMPH         Well         7-21-57         8-30-57         3389         3426         Yates         Den Hole; 3059 to 3426           Intr         Sec. 13, T20S, R33E, NMPH         Well         7-21-57         8-30-57         3482         3426         Yates         Dem Hole; 3059 to 3426, 346 i           Intr         Sec. 13, T20S, R33E, NMPH         Well         7-21-57         8-30-57         3482         3426         Yates         Dem Hole; 3059 to 3426, 346 i           Intr         Sec. 13, T20S, R33E, NMPH         Well         7-21-57         8-30-51         3482         Sec. 13, T20S, R32E, NMPH         Sec. 13, T20S, R33E, NMPH         Producer         Sec. 13, T20S, R33E, NMPH         Sec. 13, T20S, R33E,	rtion, Unit Ltr. Type <u>Spudded Completed</u> TD <u>PBTD</u> Zone(s) Record of Completions: TD <u>PBTD</u> Zone(s) Record of Completions: Parf(s) and Well Completed 13, T20S, R33E, NMPM Well 13, T20S, R33E, NMPM E Coll 13, T20S, R33E, NMPM E Coll 14, Coll 15, T20S, R33E, MMPM E Coll 15, T20S, R3							_		
NumberLocation, Unit Lr.TypeDateDepthZone(a)Record of Completion: Furt(a) and vali ComYares Unit 4-11980 FNL 6 1980 FEL Unit d sec. 13, T205, R33E, NMPMActive 0117-21-578-30-5733893426YatesDepth Furt(a)Zone(a)Part(a) and Vali Con Furt(a) and Vali Conicor: icition CompanyAnadarko1980 FNL 6 1980 FNL 005, R33E, NMPMVali7-21-578-30-5733893426YatesDepth Nile: Part(a)3492YatesDepth Nile: Part(a)2021 to 3328, 3346icor: icition CompanySec. 13, T205, R33E, NMPMVali7-21-578-30-5733893426YatesDepth Nile: Part(a)2339 commented w/s around sine and 37 thru cellar. Commented w/s contaction: J. C. CloverYates1950 FNL 6 60 FNL Unit E Sec. 13. T205, R33E, NMPM (P & A)2-27-51 P & A 7-5533383325YatesPer	rtion, Unit Ltr. Type Date Depth PEID Zone(s) Record of Completion; . Twp., Range TD PEID Zone(s) Record of Completion; P.rf(s) and Well Completed TD PEID Zone(s) Record of Completion; 13, T205, R33E, NMPM Well 7-21-57 8-30-57 3389 3482 3482 3482 3482 3482 3482 3482 3482				:					
NameLocation, Unit Ltr.TypeDateDepthZone(s)Record of Completion: PMTDRecord of Completion: Parf(s) and Wall ConYates Unit 4-11980 FEL Unit d Sec. 13, T205, R33E, NMPMActive 0117-21-578-30-57DDTD 34823426YatesOpen Hole: 3369 to 3426IOT:AnadarkoSec. 13, T205, R33E, NMPMWell7-21-578-30-57DDTD 34823426YatesOpen Hole: 3369 to 3426IOT:Sec. 13, T205, R33E, NMPMWell7-21-578-30-57DDTD 34823426YatesOpen Hole: 3392 to 3328, 3346 i Gasing: 54° 146 & 15% J-5IOT:AnadarkoSec. 13, T205, R33E, NMPMWell7-21-573-29-5133383325YatesYates Unit 8-11980 FML 6 600 FML Unit E Sec. 13, T205, R33E, NMPMOil Producer2-27-513-29-5133383325YatesViction CompanySec. 13, T205, R33E, NMPM(P & A)P & A 7-569 & A 7-56Signe and 332Signe and 332	teion, Unit Ltr.TypeDate Spudded CompletedDepth TDDepth PBTDZone(s)Record of Completion: Parf(s) and Well Com Parf(s) and Well Com Parf(s) and Well Com DDTDFNL & 1980FEL Unit G Active 0117-21-578-30-57 DDTD33893426YatesOpen Hole: 3369 to 3426 Parfs: 3292 to 3328, 3346 ( Sasse and 37 thru cellar. Cements around shoe and 37 thru cellar. Cements e and stoe and 37 thru cellar. Cement surface.FNL & 660FML Unit E (P & A)011 P & A 7-552-27-51 P & A 7-5535383325Yates Parfs: 1385-86 (squeeze per or surface.	/ set @ 31/8			-					•
NumberLocation, Unit Ltr.TypeDateDepthRecord of Completion: Fiff)Record of Completion: F	tion, Unit Ltr.TypeDateDepthZone(s)Record of Completion: Furf(s) and Wall Com PBTDENL & 1980 FEL Unit GActive Oil7-21-578-30-5733893426YatesOpen Hole: 3369 to 342613, T20S, R33E, NMPMWell7-21-578-30-5733893426YatesOpen Hole: 3292 to 3328, 334613, T20S, R33E, NMPMWell7-21-578-30-5733893426YatesOpen Hole: 3292 to 3328, 334613, T20S, R33E, NMPMWell7-21-513-29-5133383325YatesCasing: 54" 14% i 15% J-5FXL & 660 FWL Unit EOil2-27-513-29-5133383325YatesCentractor: J. C. ClowerFXL & 660 FWL Unit EOil2-27-513-29-5133383325YatesPerfs: 1385-86 (aqueeze paire)13, T20S, R33E, NMPM(F & A)P & A 7-569-29-5135383525YatesPerfs: 1378 to 3325									
NumberLocation, Unit Ltr.TypeDateDepthDepthZone(s)Record of Completion: Firf(s) and Well ComYates Unit 4-11980 FNL & 1980 FEL Unit G Active 0117-21-578-30-5733893426Yates0pen Hole:3369 to 3426itor:AnadarkoSec. 13, T205, R33E, NMPMWell7-21-578-30-5733893426Yates0pen Hole:3369 to 3426itor:Sec. 13, T205, R33E, NMPMWell7-21-578-30-573482348294262erfs:3292 to 3328, 3346iction CompanySec. 13, T205, R33E, NMPMWell17-21-578-30-573482348294262asing:5%'' 14% t 15% J-55iction CompanySec. 13, T205, R33E, NMPMWell17-21-573-29-5133383325Yates0pen Hole:3369 to 3426iction CompanyIsso FXL 4.660 FWL Unit E01112-27-513-29-513-29-5133383325Yates2erfs:1385-86 (equeeze per	teion, Unit Ltr.TypeDateDepthDepthRecord of Completion:NRPSpuddedCompletedTDPETDZone(s)Record of Completion:ENL & 1980 FEL Unit dActive Oil7-21-578-30-5733893426YatesOpen Hole:3369 to 342613, T205, R33E, NNPMWell7-21-578-30-5734823482YatesOpen Hole:3392 to 3328, 334613, T205, R33E, NNPMWell17-21-578-30-5733383325YatesOpen Hole:335-86 (equeeze per fig: 1385-86 (equeeze per fig: 1385-8		- -				& A 7			
NumberLocation, Unit Ltr.TypeDateDepthZone(s)Record of Completion: Puff(s) and Well ComYates Unit 4-11980 FNL & 1980 FEL Unit GActive 0117-21-578-30-5733893426YatesOpen Hole: Puff(s) and Well3482Perfs:3292 to 3328, 33661001Sec. 13, T20S, R33E, NNPM Sec. 13, T20S, R33E, NNPM Uction CompanyWell7-21-578-30-5733893426YatesOpen Hole: Perfs:3292 to 3328, 33661001Sec. 13, T20S, R33E, NNPM Sec. 13, T20S, R33E, NNPM Uction CompanyWell7-21-578-30-5733893426YatesOpen Hole: Perfs:3292 to 3328, 33661001Sec. 13, T20S, R33E, NNPM Sec. 13, T20S, R33E, NNPM Uction CompanyWell7-21-578-30-5733893426YatesOpen Hole: Perfs:3292 to 3328, 33661001Sec. 13, T20S, R33E, NNPM Sec. 13, T20S, R33E, NNPM Uction CompanyWell7-21-578-30-5733893426YatesOpen Hole: Perfs:3292 to 3328, 33661011Sec. 13, T20S, R33E, NNPM Sec. 13, T20S	rtion, Unit Ltr. Type Spudded Completed TD PBTD Zone(s) Record of Completion; . Twp., Range PEL Unit d Active Oil 7-21-57 8-30-57 3389 3426 TD PBTD Zone(s) Parf(s) and Well Con PL & 1980 FEL Unit d Active Oil 7-21-57 8-30-57 3389 3426 DDTD 3482 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	racharacter for				.*		(P & A)		
Juber     Location, Unit Ltr.     Type     Date     Depth     Record of Completion;       Juor     Sec., Twp., Range     Spudded     Completed     TD     PBTD     Zone(s)     Pare(s)     Record of Completion;       Yates Unit 4-1     1980 FEL Unit d     Active 011     7-21-57     8-30-57     3389     3426     Yates     Open Hole;     3369 tb     3426       Intraction     Sec. 13, T20S, R33E, NMPM     Well     7-21-57     8-30-57     3389     3426     Yates     Open Hole;     3369 tb     3426       Intraction     Sec. 13, T20S, R33E, NMPM     Well     7-21-57     8-30-57     3389     3426     Sec.is     Sec.is     3282     Sec.is     Sec.is     3282     328, 3346       Intraction     Sec.is     Sec.	ttion, Unit Ltr.     Type     Date     Depth     Record of Completion:       . Twp., Range     Spudded     Commleted     TD     PBTD     Zone(s)     Record of Completion:       PNL & 1980 FEL Unit d     Active 011     7-21-57     8-30-57     3389     3426     Yates     Open Hole: 3369 to 3426       13, T20S, R33E, NMPM     Well     7-21-57     8-30-57     3389     3426     Yates     Open Hole: 3292 to 3328, 3346 (       2010     3482     3482     3482     Second shoe and 37     Entround shoe and 37       0010     Totu cellar. Gemented w/     arround shoe and 37     Entrou cellar. Gemented w/       0111     Contractor: J. C. Clower	1795-96 /	Vates	3325	3338	3-29-51	2-27-51	Draducar	13 TOOS	Tares Oute
Number     Location, Unit Ltr.     Type     Date     Depth     Record of Completion;       Number     Sec., Twp., Range     Spudded     Completed     TD     PBTD     Zone(s)     Perf(s)     and Well Com       Yates     Unit 4-1     1980 FNL & 1980 FEL Unit G     Active 011     7-21-57     8-30-57     3389     3426     Yates     Open Hole:     3369 to 3426       Sec. 13, T20S, R33E, NMPH     Well     7-21-57     8-30-57     3389     3482     Sec.     <	tion, Unit Ltr.     Type     Date     Depth     Record of Completion;       . Twp., Range     Unit G     Spudded     Completed     TD     PBTD     Zone(s)     Record of Completion;       ENL & 1980 FEL Unit G     Active Oil     7-21-57     8-30-57     3389     3426     Yates     Open Hole;     3369 to 3426       13, T2OS, R33E, NMPM     Well     7-21-57     8-30-57     3482     3482     Yates     Open Hole;     3369 to 3426       2037D     3482     3482     States     Open Hole;     3369 to 3426     States     Second of Completion;       13, T2OS, R33E, NMPM     Well     7-21-57     8-30-57     3482     States     Open Hole;     3369 to 3426       13, T2OS, R33E, NMPM     Well     7-21-57     8-30-57     3482     States     Open Hole;     3369 to 3426       14     6     154// J-53     54// J-53     States     States     Open Hole;     3369 comented v/       15     Gasing:     54// J-53     States     States     States     States     States       16     States     States     States     States     States     States     States       16     States     States     States     States     States     States     States									
Number     Location, Unit Ltr.     Type     Date     Depth     Record of Completion; TD       107     Sec., Twp., Range     Spudded     Completed     TD     PBTD     Zone(s)     Record of Completion; P.rf(s) and Well Con       Yates     Unit 4-1     1980 FNL & 1980 FEL Unit d     Active 011     7-21-57     8-30-57     3389     3426     Yates     Open Hole;     3369 to 3426       1cor:     Anadwrko     Sec. 13, T20S, R33E, NMPM     Well     7-21-57     8-30-57     3389     3426     Yates     Open Hole;     3369 to 3426       1cor:     Anadwrko     Sec. 13, T20S, R33E, NMPM     Well     7-21-57     8-30-57     3389     3426     Perfs: 3292 to 3328, 3366     Image: Shear in the shea	tion, Unit Ltr.TypeDate SpuddedDepth CompletedDepth TDZone(s)Record of Completion; Puff(s) and Well ConENL & 1980 FEL Unit G 13, T2OS, R33E, NKPMActive Oil Well7-21-578-30-57 34823389 34823426YatesOpen Hole; 3369 to 3426 Perfs: 3292 to 3328, 3346 ( 2369 cemented w/ around shoe and 37; thu cellar. Cement surface.ENL & 1980 FEL Unit G 13, T2OS, R33E, NKPM7-21-578-30-57 Vall3389 34823426YatesOpen Hole; 3369 to 3426 Perfs: 3292 to 3328, 3346 ( emented w/ around shoe and 37; thu cellar. Cement surface.		1		-					
NumberLocation, Unit Ltr.TypeDateDepthDepthRecord of Completion;scorSec., Twp., RangeSpuddedCompletedTDPBTDZone(s)Record of Completion;Yates Unit 4-11980 FNL & 1980 FEL Unit 6Active 0117-21-578-30-5733893426YatesOpen Hole;3069 to 3426scor:AnadarkoSec. 13, T20S, R33E, NNPMWell7-21-578-30-5733893426YatesOpen Hole;3292 to 3328, 3346scionGompanySec. 13, T20S, R33E, NNPMWellSec. 13, T20S, R33E, NNPMWellSec. 13, T20S, R33E, NNPMSec. 13, T20S, R33E, NNPM	tion, Unit Ltr.TypeDateDepthDepthZone(a)Record of Completion: Porf(a) and Well ComFNL & 1980 FEL Unit d 13, T2OS, R33E, NMPM HellActive Oil Well7-21-578-30-57 304823389 34263426YatesOpen Hole: 3369 to 3426 Perfs: 3292 to 3328, 3346 ( Gasing: 5½" 14% to 15½% J-55 @ 3369 cemented w/ around shoe and 37 thru cellar. Cement surface.cable Tool Drilled	י י כ ר					••••••			
Name, NumberLocation, Unit Ltr.TypeDateDepthRecord of Completion;1007Sec., Twp., RangeSpuddedCompletedTDPBTDZone(s)Record of Completion;Yates Unit 4-11980 FNL & 1980 FEL Unit dActive 0117-21-578-30-5733893426YatesOpen Hole: 3369 to 34261007DSec. 13, T20S, R33E, NMPMWell7-21-578-30-5733893426Perfg: 3292 to 3328, 33461007DSec. 13, T20S, R33E, NMPMWell7-21-578-30-573482Casing: 5½" 14# & 15¼# J-5i1007DSec. 13, T20S, R33E, NMPMWell17-21-578-30-5731893426110Sec. 13, T20S, R33E, NMPMWell17-21-578-30-57138914# s1207:AnadarkoSec. 13, T20S, R33E, NMPMWell7-21-578-30-57138914# s1207:CompanySec. 13, T20S, R33E, NMPMWell7-21-578-30-5714# s15# J-5#1207:CompanySec. 13, T20S, R33E, NMPMWellSec. 13# J-5#14# s15# J-5#1207:CompanySec. 14# sSec. 13# J-5#Sec. 13# J-5#14# s15# J-5#1207:Sec. 13# J-5#Sec. 14# sSec. 13# J-5#Sec. 13# J-5#Sec. 13# J-5#1208:Sec. 14# sSec. 14# sSec. 14# sSec. 13# J-5#Sec. 13# J-5#1209:Sec. 14# sSec. 14# sSec. 14# sSec. 14# sSec. 13# J-5#1209:Sec. 14# s<	tion, Unit Ltr.TypeDateDepthRecord of Completion;. Twp., RangeSpuddedCompletedTDPBTDZone(s)Record of Completion;FNL & 1980 FEL Unit dActive Oil7-21-578-30-5733893426YatesOpen Hole; 3369 to 342613, T2OS, R33E, NMPMWell7-21-578-30-5733893426YatesOpen Hole; 3292 to 3328, 3346 (2000 Sector						 			
Name, NumberLocation, Unit Ltr.TypeDateDepthRecord of Completion;107Sec., Twp., RangeSpuddedCompletedTDPBTDZone(s)Record of Completion;Yates Unit 4-11980 FEL Unit 6 Active 0il7-21-578-30-5733893426YatesOpen Hole:3369 to3426107:AnadarkoSec. 13, T20S, R33E, NMPMWell7-21-578-30-5733893426Perfs:3292 to3328, 3346105:CompanyGasing:Sy" 14# & 154# J-55Gasing:Sy" 14# & 154# J-55Gasing:Sy" 14# & 154# J-550CompanySurface.Surface.Surface.Surface.Surface.	tion, Unit Ltr.TypeDateDepthRecord of Completion:. Twp., RangeSpuddedCompletedTDPBTDZone(s)Record of Completion:FNL & 1980 FEL Unit GActive Oil7-21-578-30-5733893426YatesOpen Hole:3369 to 342613, T20S, R33E, NMPHWell7-21-578-30-5733893426YatesOpen Hole:3369 to 342613, T20S, R33E, NMPHWell63482StatesOpen Hole:3369 to 342613, T20S, R33E, NMPHWell7-21-578-30-5714# & 154# J-5313, T20S, R33E, NMPHWell7-21-578-30-57348213, T20S, R33E, NMPHWell7-21-578-30-5714# & 154# J-5313, T20S, R33E, NMPHWell7-21-578-30-5714# & 154# J-5313, T20S, R33E, NMPHWell7-21-578-30-5714# & 154# J-5314154# J-5314# & 154# J-5315# J-5314# & 154# J-5315151515# J-5315# J-5315# J-53151515# J-5315# J-5315# J-53161515# J-53<						-			
Name, NumberLocation, Unit Ltr.TypeDateDepthDepthRecord of Completion:AtorSec., Twp., RangeSpuddedCompletedTDPBTDZone(s)Record of Completion:Yates Unit 4-11980 FNL & 1980 FEL Unit 6Active 0il7-21-578-30-5733893426YatesOpen Hole:3369 to 3426ator:AnadarkoSec. 13, T20S, R33E, NMPMWell7-21-578-30-5733893426YatesOpen Hole:322 to 3328, 3346 (action CompanyCasing:St"14# & 15½#15½#14# & 15½# J-5Casing:5½" 14# & 15½# J-5@ 3369 comented w/ around shoe and 37	stion, Unit Ltr.TypeDateDepthZone(s)Record of Completion: Pirf(s) and Well CompletedFNL & 1980 FEL Unit d 13, T20S, R33E, NMPMActive 011 Well7-21-57 Pirf(s)8-30-57 Bit diamond3389 Bit diamond3426YatesOpen Hole: Perfs: 34823426Perfs: Perfs: Bit diamond900 FEL Unit diamond7-21-57 Pit diamond3389 Bit diamond3426YatesOpen Hole: Perfs: Bit diamond342613, T20S, R33E, NMPM 13, T20S, R33E, NMPM 13, T20S, R33E, NMPM Hell7-21-57 Well8-30-57 Bit diamond34823426YatesOpen Hole: Perfs: Bit diamond328, 3346 Bit diamond13, T20S, R33E, NMPM 13, T20S, R33E, NMPM 13, T20S, R33E, NMPM 13, T20S, R33E, NMPM Well7-21-57 Well8-30-57 Bit diamond34823426 Bit diamondPerfs: Bit diamond328, 3346 Bit diamond13, T20S, R33E, NMPM 13, T20S, R33E, NMPM 13, T20S, R33E, NMPM 13, T20S, R33E, NMPM Well7-21-57 Bit diamond8-30-57 Bit diamond34823426 Bit diamond900 FEL Unit Bit diamond </td <th></th> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
Name, NumberLocation, Unit Ltr.TypeDateDepthDepthRecord of Completion:AtorSec., Twp., RangeSpuddedCompletedTDPBTDZone(s)Record of Completion:Yates Unit 4-11980 FEL Unit 6Active 0il7-21-578-30-5733893426YatesOpen Hole:3369 to 3426ator:AnadarkoSec. 13, T20S, R33E, NMPMWell7-21-578-30-5733893426YatesOpen Hole:3329, to 3328, 3346ator:AnadarkoSec. 13, T20S, R33E, NMPMWell7-21-578-30-573482Casing:5½" 14# & 15½# J-5ator:CompanySec. 13, T20S, R33E, NMPMWellSec. 13, T20S, R33E, NMPMSec. 13, T20S, R33E, R32E,	<pre>stion, Unit Ltr. Type Date Depth Accord of Completion; . Twp., Range Spudded Completed TD PBTD Zone(s) Perf(s) and Well Con PNL &amp; 1980 FEL Unit d Active Oil 7-21-57 8-30-57 DDTD 3482 9426 90en Hole: 3369 to 3426 13, T20S, R33E, NMPM Well 941 7-21-57 8-30-57 3482 9426 90en Hole: 3292 to 3328, 3346 90en Hole: 3292 to 3328, 3346 924 9427 9448 9448 9448 9448 9448 9448 9448 944</pre>	Cemented				-				
Name, NumberLocation, Unit Ltr.TypeDateDepthDepthRecord of Completion;AtorSec., Twp., RangeSpuddedCompletedTDPBTDZone(s)Pirf(s)and Well ConYatesUnit 4-11980 FNL & 1980 FEL Unit dActive 0il7-21-578-30-5733893426YatesOpen Hole:3369 to3426AnadarkoSec. 13, T20S, R33E, NMPMWellWell7-21-578-30-573482YatesOpen Hole:3292 to3328, 3346Active OutpanyCasing:Sy" 14# & 154# J-5Still J-5Still J-5Still J-5Still J-5	<pre>stion, Unit Ltr. Type Date Depth Spudded Completed TD PBTD Zone(s) Record of Completion; . Twp., Range Purie Oil P-21-57 8-30-57 3389 3426 Yates Open Hole: 3369 to 3426 13, T2OS, R33E, NMPM Well Well 9-21-57 8-30-57 3482 States Open Hole: 3292 to 3328, 3346 Casing: 5½" 14# &amp; 15½# J-5</pre>	apue and						-		
Name, NumberLocation, Unit Ltr.TypeDateDepthRecord of Completion;AtorSec., Twp., RangeSpuddedCompletedTDPBTDZone(s)Perf(s) and Well ConYates Unit 4-11980 FNL & 1980 FEL Unit GActive Oil7-21-578-30-5733893426YatesOpen Hole: 3369 to 3426Sec. 13, T20S, R33E, NMPMWellWell7-21-578-30-573482Perfs: 3292 to 3328, 3346Active Origon CompanySec. 13, T20S, R33E, NMPMWellSec. 13, T20S, R33E, NMPMSec. 13, T20S, R32E,	<pre>ation, Unit Ltr. Type Date Depth Record of Completion: . Twp., Range Spudded Completed TD PBTD Zone(s) Perf(s) and Well Con FNL &amp; 1980 FEL Unit d Active Oil 7-21-57 8-30-57 3389 3426 Yates Open Hole: 3369 to 3426 13, T2OS, R33E, NMPM Well 941 7-21-57 8-30-57 DDTD 3482 Perfs: 3292 to 3328, 3346 0 Casing: structure of the set of set of the set of the</pre>	12 147 0 725 B								ά.
Name, NumberLocation, Unit Ltr.TypeDateDepthRecord of Completion:atorSec., Twp., RangeSpuddedCompletedTDPBTDZone(s)Record of Completion:Yates Unit 4-11980 FNL & 1980 FEL Unit dActive Oil7-21-578-30-5733893426YatesOpen Hole:3369 to3426Sec. 13, T20S, R33E, NMPMWellMell7-21-578-30-5733893426YatesOpen Hole:3369 to3426ator:AnadarkoSec. 13, T20S, R33E, NMPMWellMell3482Perfs:3292 to3328, 3346	ation, Unit Ltr.TypeDateDepthRecord of Completion:, Twp., RangeSpuddedCompletedTDPBTDZone(s)Record of Completion:FNL & 1980 FEL Unit GActive Oil7-21-578-30-5733893426YatesOpen Hole:3369 to342613, T2OS, R33E, NMPMWellWell34823482Perfs:3292 to3328, 3346	alt 1/4 c tel 4 t cc				, 1		- · ·		P
Name, NumberLocation, Unit Ltr.TypeDateDepthDepthRecord of Completion:utorSec., Twp., RangeSpuddedCompletedTDPBTDZone(s)Prf(s) and Well Completion:Yates Unit 4-11980 FNL & 1980 FEL Unit dActive Oil7-21-578-30-5733893426YatesOpen Hole:359 to3426Yates Unit 4-1Sec. 13, T20S, R33E, NMPMWell7-21-578-30-57DDTD3426YatesOpen Hole:359 to3426	<pre>ation, Unit Ltr. Type Date Depth Record of Completion; , Twp., Range Spudded Completed TD PBTD Zone(s) Perf(s) and Well Con FNL &amp; 1980 FEL Unit G Active Oil 7-21-57 8-30-57 3389 3426 Yates Open Hole: 3369 to 3426 13, T20S, R33E, NMPM Well</pre>	3292 to 3328, 3346 (			3482					
Name, Number Location, Unit Ltr. Type Date Depth Record of Completion: Ator Sec., Twp., Range Spudded Completed TD PBTD Zone(s) Perf(s) and Well Con Yates Unit 4-1 1980 FNL & 1980 FEL Unit d Active Oil 7-21-57 8-30-57 3389 3426 Yates Onen Hole: 3466 4 3496	rtion, Unit Ltr. Type Date Depth Record of Completion: , Twp., Range Spudded Completed TD PBTD Zone(s) Perf(s) and Well Con FNL & 1980 FEL Unit G Active Oil 7-21-57 8-30-57 3389 3426 Yates Onen Hole: 3466 14 3496			· · · · · · · · · · · · · · · · · · ·	DDTD			Well	13, T20S, R33E,	
Name, Number Location, Unit Ltr. Type Date Depth Record of Completion: Ator Sec., Twp., Range Spudded Completed TD PBTD Zone(s) Prf(s) and Well Con	Unit Ltr. Type Date Depth Record of Completion: ., Range Spudded Completed TD PBTD Zone(s) Porf(s) and Well Con	Hole: 3360 +2 3676	Yates	3426	3389	8-30-57	7-21-57		FNL & 1980 FEL Unit	Unit
Name, Number Location, Unit Ltr. Type Date Depth Record of Completion:	Unit Ltr. Type Date Depth Record of Completion:	Purf(s) and Well Con	Zone(s)	PBTD		Completed	Spudded		sec., iwp., Kange	C P C F G C F
		of Completion:		pth	De	e	Dat	Туре	Location, Unit Ltr.	Sparstor, Number

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CONFERENCE THOMAS PLIS, CO.	 - 					
Cable Tool Drilled						
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SX, CHT CITCULATED.					2	Production Company
8"		3410	-	for 8-1)		Operator: Anadarko
		DITD	(recompleted 10-2/-//)		JEC. IJ, IZVJ, NJJE, NELEM	
Open Hole: 3252 to 3410	Yates	-	7-14-56		FNL & 990	Peas Yates Unit 8-2
Perf(s) and Wall Construction	Zone(s)	a.rsd a.r.	pagarduon nannde			
Record of Completion:		Depti	)ate	Туре	Location, Unit Ltr. Sec., Two., Ranse	ell Name, Number Derator
(6)						
			•			• • • • • • • • • • • • • • • • • • •





Perfs ]

Squeeze perf from 1385-86

(Mathian Barris )

June 30, 1982

OIL CUINSLAND FE COME 2627

Tom Kellahin 500 Don Gaspar Santa Fe, New Mexico 87501

Dear Sir:

Attached is the information necessary to file for permission to convert to water injection Teas Yates Unit Well #5-3 in Lea County, New Mexico. The well is located 1980'FNL & 1650'FWL, Sec.14, T20S,R33E, NMPM.

The proposed average injection volume is to be approximately 250 BWIPD and the maximum volume should not exceed 400 BWIPD. The water injected is to a mixture of water produced on the unit and make-up water from the Seven Rivers reef formation produced from our Teas Yates Unit WSW #1. The proposed maximum injection pressure is to be 1150 psig (see enclosed step rate test).

The injection zone is to be the Yates sand which is approximately 200' thick at this point and approximately 3300' deep.

Currently there are no sources of drinking water on the lease.

The proposed stimulation program is simply a matrix job consisting of approximately 5000 gallons of 20% NE-FE acid.

Sincerely,

Mark E. Fesmire Senior Production Engineer

MEF:gks

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ROEATY TOOL DTILLEd		• <b></b>						
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'@ 13813' ₩/								
8X8 00CC/W 0010 8 18/5 6		-						•
13 3/8" 9 31001								
						producing)		
9,454-57.						shut-in, Bone		
18, 9,422-24, 9,430-34, 9,442-50,		• ••• •••	-			currently		
Bone Springs 9.408-14 o	Morrow,					(Morrow	-	Operator: Arco
نب) 🗉	Sorings	UNOCT	OHCHT	N		(Dual)	14, T20S, R33E,	
		13800	140/2	12-6-62 (346)	4-30-62	Gas Producer	660 FNL & 1980 FWL, Unit C.	Mahaffey-Fed. ARC #1
Contractor: J. C. Clower								
CADIE 1001 DILLEO	-					recompletion		
	*.					waiting on		
circ					(18-91-11	Currently		ц.
Casing: 7" set @ 3370, cemented w/	Rivers			8 re-entered	(P & A 12-58	re-entered		Operator: Anadarko
200-3305	Seven						NNPM	
	Vates	3389	3416	1-22-54	12-24-53	Oil Producer	FNL & 990 FWL, Unit E	Teas Yates Unit 5-4
Contractor: J. C. Clower	-							
Cable Tool Drilled	•							
				-				
ement to surface to P & A.				•				Foduction Company
@ 1500. Pulled the and filled with								Operator: Anadarko
	KIVEI 8				-			
	Seven			-75)	(P & A 2-21-75)	4 2 7	County, New Mexico	
Open Hole: 3373-3385	Yates	3266	3388	9-30-53	8-26-53	Oil Production		Teas Yates Unit 5-1
reri(8) and well Construction	(a)attor						÷	
	Zonela	Depth		Completed	Date	Туре	Location, Unit Ltr. Sec., Twp., Range	Gerator Number
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Contractor: N/A							-		
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Rotary Tool Drilled									
ר אמורש דעופת דעופרבוטע במ8 ה 2065									
i @ 3426 cemented w/5						:			Production Company
950 cement				(2°, -0-U		Well			erator: Anadarko
					(Converted	Thiection		· .	
Perfs: 3236-40, 3244-47, 3252-56	Yates	3418	3428	10-28-65	59-1-8	Water	R33E. NMPM	Sec. 14. T20S.	
	1				) , ,			101 0	TABE Vator A-1
Contractor: Cactus Drlg. Co.	· · · -								
Rotary Tool Drilled		, ,							
			-					-	
a bottom @ JJ/J cemented W/SU 8X8								, • • • • • • • • • • • • • • • • • •	
intro SX JZ IIner W/COD @ 2	-								
W/200 SX (CIFCULATEd)./" @ 3085							.,	ar ngron	Production Company
,	<b>Kivers</b>		• • • • •			 			Operator: Anadarko
р ) н	o ven								
	ċ					Cil Producer	, NMPM	•	
Parfs. 3137-3950	Yates	3265	3385	9-15-74	7-9-74	Active	•	-11	Teas Yates Unit 5-5
CONTRACTOR: 7. C. CTOMOL									
				ŕ					5
Cable Tool Drilled	······································								
2" tbg at 3286.									
420 sxs from			2952						Production Company
Casing: 7" @ 3240 cemented w/50 sx	Rivers		to	ed 8-30-56)	(Recompleted				erator: Anadarko
	Seven		deepened			Oil Producer	R33E, NMPM	Sec. 14, TZUS,	
Open Hole: 3225-3392	Yates	3370	3278	10-29-53	10-4-53	Active	FWL, Unit C,		Teas Yates Unit 5-2
Perf(s) and Well Construction	Zone(8)	2BTD	UT UT	Comptered					
T 1. 8 T 1	3	Depth	De	Date	Da	Туре,	Unit Ltr.	Location, Unit Lt. Sec., Twp., Range	Deficier, Number
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Contractor: W/a		,	-				
Cable Tool Drilled				-			
and 150 sxs @			2				reoucceron company
Casing: 5½ @ 3228 w/100 Bxs							
Open Hole: 3202-24			DDTD 3394	(recompleted 5-6-77)	· · · · · ·	NABR	
Perfs: 3228-3394	Yates		3330	2-13-54 3-18-54	Active Oil Producer	1650 FNL & 2310 FEL, Unit G, Sec. 14, T20S, R33E,	Teas Yates Unit 10-2
Contractor: J. C. Clower							
Cable Tool Drilled							
Salta lined thg @ 3204							
Casing: 7" @ 3290 w/420 axs. 2"	-						Production Company
Open Hole: 3294-3338	Rivers		7 A .	(converted 3-6-72)	Well		Operator: Anadarko
Perfs: 3267-71, 3275-86	Yates	3338	3338	3-22-54 4-20-54	Water	Sec. 14, T2OS, R33E, NMPM	leas lates unit y-1
Contractor: J. C. Clower							
Cable Tool Drilled							
0 sxs (			·* .				
7" @ 3280 cemented							Production Company
Open Hole: 3280-3420	VIVELS		3420	-		÷	Operator: Anadarko
Perfs: 3180-97, 3210-14, 3227-59			3324	2-26-54 3-10-54 (Recompleted June 1977)	Active 011 Producer	2310 FSL & 1960 FWL, Unit K, Sec. 14, T20S, R33E, NMPM	Teas Yates Unit 7-1
Record of Completion: Perf(s) and Well Construction	Zone(s)	PBID	Depth TD 1	Date Spudded Completed	Туре	Sec., Twp., Range	and tot
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Drilled with Cable Tools, re-entered with Rotary Tools.		-			-		<b>.</b>
<u>Perfs:</u> 3212-3280, 3316-3334				÷ - E		-	Production Company
1							
Casing: 10 3/4" @ 513 w/456 sx, cmt circ. 4½" @ 3455 w/765 sx, cmt circ.	Yates		3433	(r c c c c c c c c c c c c c c c c c c c	Producing Well	, T20S, R33E,	
			5	r *		ל אוניין אביר טובני א	Yates Unit 14-2
							•
							• *
	<b>,</b>						
circ.2 3/8" Salta lined tbg @ 3195.							Production Company
50 sx c	-		÷		Well		or: Anadarko
Upen Hole: 3293-3342	Tates	J	7450	(Converted 5-3-72)	Injection	. 15, T20S, R33E, NMPM	
			3	6-35-53 0-10-53	Water	660 FNI & 660 FET TINIT A	Yates Unit 12-1
Contractor: J. C. Clower					· .		
Cable Tool Drilled							
@ 3145.							rrounction combany
Casing: 5%" @ 3215 W/435 sx cmt. Cmt. circ to surface, 2" Salta							
					Mell	Jec. 14, 1205, NJJE, WHEN	
Open Hole: 3215-3288	Yates	3288	3319	12-19-54 1-28-55	Water	FNL & 2310 FEL, Unit B	Yates Unit 11-1
Record of Completion; Perf(s) and Well Construction	Zone(s)	PBTD	TD J	Spudded Completed	- 2 5 ~	·, Ra	
				Date	Type	Location, Unit Ltr.	line, Number

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Para Billion Ac

10-to	F, Sec. 14, T20S, R33E, NMPM 3 2265 FNL & 1425 FEL, Unit G, Sec. 14, T20S, R33E, NMPM	Water Supply Well Water Injection	1-10-82	4-18-82 	3426		Rivers Reef Yates	Casing: 10 3/4" 40.5# St. 6 C, R-3 J-55 set @ 1260'. Cmted w/825 sx, circ 200 sx to pit. 7 5/8" 26.4# N-80 set @ 3100'. Cmted w/690 sx cmt. circ 200 sx to pit. 5½" 15.5# K-55 ST & C Liner set @ 3830 w/top @ 2690'. Cmt w/150 sx circ 20 sx. Perfs: 3660-63, 3674-81, 3696- 3700, 3708-11, 3724-27, 3746-49, 3758-62. Rotary Tool Drilled Contractor: W arton Drig. Co. Perfs: 3222 to 3252, 3258-3264, 3330-50. Casing: 9 5/8" 36# K-55 ST & C set @ 1334 and cemented w/620 sx around shoe. Cement circ. 7" 23# K-55 set @ 3210 and cemented w/ 920 sx around shoe. Cement circ. 4½" 10.5# J and K-55 set @ 3426 cemented w/55 sx around shoe. TOC @ 2770 by survey. Contractor: W arton Drig. Co.
								3660-63, 3674-81, 369 3708-11, 3724-27, 3746- 2. Tool Drilled tor: W arton Drlg. Co
Yates Unit 10-3	2265 FNL & 1425 FEL, G, Sec. 14, T20S, R3 NYPM	Water Injection	11082	4-18-82	3426			2 to 3252, 3258-326 3/8" 36# K-55 ST & and cemented w/620 . Cement circ. 7" 2 3210 and cemented v nd shoe. Cement cir and K-55 set @ 342
								755 sx around shoe. survey. W.arton Drlg, Co.
	•					,-	<b>)</b> 1. 19	





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Perfs;

None



distants.

Perfs: Squeeze perf @ 1500'







Case 3637

Attn: Tom Kellahin

Dear Sir:

Kellahin & Kellahin 500 Don Gaspar

Santa Fe, New Mexico 87501

Attached is the information necessary to file for permission to drill water injection well #8-4 on our Teas Yates Unit in Lea County, New Mexico. The proposed well is to be drilled 2250' FSL & 975' FWL, Sec. 13, T20S, R33E, NMPM and is to be drilled to a total depth of approximately 3500'.

The proposed average injection volume is to be 250 BWIPD and the maximum volume should not exceed 400 BWIPD. The water injected is to be a mixture of water produced on the unit and make-up water from the Seven Rivers reef formation produced from our Teas Yates Unit WSW #1. The proposed maximum injection pressure is to be 1150 psig (see enclosed step rate test).

The injection zone is to be the Yates sand which is approximately 200' thick at this point and approximately 3300' deep.

Currently there are no sources of drinking water on the lease.

The proposed stimulation program is simply a matrix acid job consisting of approximately 5000 gallons of 20% NE - FE Acid.

Sincerely, Marh E-

Mark E. Fesmire Senior Production Engineer

Attachment

Enclosure

FEM:rd

Cable Tool Drilled, Rotary Tuols used on re-entry. Contractor: N/A			:				
the set				converted and completed 2-38-75)			conduction company
Casing: 10 3/4" set @ 510" w/				(re-entered 7-12-74			
Perfs: 3261-76, 3282-99, 3319- 25, 3334-43, 3348-58, 3380-86, 3392-3400.	Yates	3523	3535	618-51 (P & A 618-51)	water Injection Well	Sec. 14, T2OS, R33E, NMPM, Lea Co. New Mexico	
Cable Tool Drilled. Contractor: Thomas Drig. Co.	· · · · · · · · · · · · · · · · · · ·	<b> </b>		<b>.</b>		. 660 PPT 11-1+	as Vires Enit 15-1
3291. 4 3/4" open hole 3252 to 3410.	2						
Casing: 8 5/8" set @ 1500' w/ 450 sx circulated cmt. 5½" set @ 3252 w/175 sx. 2 7/8" tbg @			34 I U				Jerator: Anadarko Joduetion Company
Open Hole completion: 3252 to 3410.	Yates		3328 deepened to	5-21-56 (recompleted 10-27-77)	011 Producer 5- active (replacement	Lea Co. New Mexico	
Cable Tool Drilled. Contractor: Spartan Drig. Co.					·· <b>····</b>		
Casing: 7" set @ 3178 cemented w/100 sx, 200 sx squeezed @ 1385- 1386.							
3325.				(oc-/ & a r)		ч. -	eratúr: Anadarko Jedeotion Company
Perfs: 1385-86 (squeezed perfs) Open Hole completion: 3172 to	Yates	3325	3338	n N	011 Producer 2- (P & A)	1980 FNL & 660 FWL, Unit E, Sec. 13, T2OS, R33E, NMPM, Lea Co. New Mexico	as ales Unit 8-1
Record of Completion: Perf(s) and Well Construction	Zone(s)	Depth PBTD	TD	Date Spudded Compileted	Type	Sec., Twp., Range	
					3		all Name Number

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			•.			· · ·		
Contractor: Roach and Shepard	0							
cemented with /S sx (top @ 3110 by survey).						ř	-	-
225 sx (100 sx circ to pit). 5½" 14# J-55 set @ 3491 and	51							-
1 1 1 1	8 0							
3368-3372, 3376-3380.		. <u></u>						- Eduction Company
3478, 3318-3348, 3356-3362,						Active	Lea Co. New Mexico	
Perfs: 3335-3350, 3361-3366,	Yates Po	3478	3543	4-1-58 (TA 9-25-58)	10-31-57	Water Injection	سو من	
Cable Tool Drilled.	0							AS Marks Intit 2-2
and 300 sx thru D. V. Tool @ approximately 1400.	a a		3428					
cemented w/150 sx around shoe	219		41				-	
SK" IS# ant a		•	to					- attack - Andarko
Open Hole completion 3209 to 3428.	Yates 3		drilled	7C-C1-0			14, T2OS, R33E	
CALLE TOOT DLITIGU.			3	0-15-63	6-28-52	0il Producer	1550 FNL & 339 FEL, Unit H.	as Yutes Unit 10-1
(circ	2 2							
1 w/150 sx around s	1 0 1	·	3350 then to					9
Casing: 53" 14# set @ 3209	0	<b></b>	ť					stator: Anadarko
3452.			drilled			Acitve	Lea Co. New Mexico	
	Yates 0		3209	4-14-52	2-27-52		FNL & 1980 FWL,	s Yaces Unit 2-1
Record of Completion: Perf(s) and Well Construction	Zone(a) R	vepth PBTD	d.I.	d Completed	Spudded	24.62		
				Nata		Type	Location, Unit Ltr.	21 June, Number
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Lop of cement @ 21/0 by survey.				- *				
ed W/DD SX around								
920 sx around shoe, cement circ.								
K-55 set @ 3210 and cemented w/								•
around shoe. Cement circ. 7" 23#	- <b>h</b>							
34 and cemented w/620		•				· .		Ê
Casing: 9 5/8" 36# K-55 ST & C								erator: Anadarko
							Lea Co. New Mexico	
1720 40 416 416 41 476 41 476				••••		Injection	. 14, T20S, R33E,	
Porfe - 3000 to 1050 3050 to	Yates		3426	4-18-82	1-10-82	Water	FNL	as Yutes Unit 10-3
Contractor: J. C. Clower								-
Cable Tool Drilled.						_		
Cemented to surface.								
1 375 sx through o		·						
a 3369 cemented w/620 av around								
SLUI 1//# c 1cL T_cc								Coduction Company
3364.		جمر			- <b>-</b>			aruter: Anadarko
Perfs: 3292 to 3328 and 3346 to		k.	3482		`		med CO. New MEXICO	
		3426				ACTIVE	2, 10	
Open Hole: 3369 to 3426	Yates	PBTD		8-30-57	7-21-57		FNL & 1980 FEL,	s lates Unit 4-1
Contractor: J. C. Clower	· · · · · ·							· •
							-	company company
erf @ 1410.			2					Andria Anadarko
c around shoe and 200								
			3535	10-26-74)		Active	Co. New Mexico	
Open Hole: 3325-3535	Yates		ידתת	(converted:		Injection	. 13, T20S, R33E, NM	
				11_01_07	10-25-54	Water	660 FNL & 330 FWL. Unit D.	as Vutes Unit 2-2
rd e	Zone(s)	PBTD	IJ	Completed	Spudded		sec., iwp., sange	
Record of Completion .		th.	Depth	Date	þ	Туре	, on U	, Number



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1. Station



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Squeeze perf from 1385-86



July 14, 198

Tom Kellahin 500 Don Gaspar Santa Fe, New Mexico 87501

> SANTA FE Cuse 7677

Dear Sir:

Attached is the information necessary to file for permission to drill water injection well #13-2 on our Teas Yates Unit in Lea County, New Mexico. The proposed well is to be a replacement for our water injection well #13-1which was plugged in 1981. The proposed well is to be located 10' FSL & 660' FWL, Unit M, Sec.ll, T20S, R33E, NMPM, and is to be drilled to a total depth of approximately 3450'.

The proposed average injection volume is to be 250 BWIPD and the maximum injection volume should not exceed 400 BWIPD. The water injected is to be a mixture of water produced on the unit and make-up water from the Seven Rivers reef formation produced from our Teas Yates Unit WSW #1. The proposed maximum injection pressure is to be 1150 psig (see enclosed step rate test).

The injection zone is to be the Yates Sand which is approximately 3240' deep and approximately 200' thick at this point.

Currently there are no sources of drinking water on the lease. The proposed stimulation program is simply a matrix acid job consisting of approximately 5000 gallons of 20% NE-FE acid.

Sincerely,

Naul E. Fr

Mark E. Fesmire Senior Production Engineer

MEF:gks

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Clower	Contractor: J. C.								
	Cable Tool Drilled							•	
set @ 3397 cemented w/ sx around shoe.	× et			•					
7" set @ 3330 cemented w/ 100 sx around shoe and 400 sx thru perf @ 1000' cmt. circ.	Casing: 7" set @ 3330 c 100 sx around s sx thru perf @ circ.						injection)		<u>perator:</u> Anadarko reduction Company
326 336	ົ້ມ	Yates Seven Rivers	3377	3397	12-16-53	11-12-53	2	1980 FNL & 1650 FWL Unit F, Sec. 14, T20S, R33E, NMPM	eas lates init 5-3
. Clower	Contractor: J. C.								
<b>e</b>	Cable Tool Drilled								
	5" tbg @								
0 cemented w/50 d shoe and 420 1000'.	Casing:     7" @ 3240       sx around       sxs from	Rivers		to 3392	a x-30-36)	(xecompleted			<u>Derator:</u> Anadarko Production Company
3392	le	Yates Seven	3370	3278 deepened	10~29-53	10-4-53	Unit C Active 011 NMPM Producer	660 FNL & 1650 FWL, Unit C Sec. 14, T20S, R33E, NMPM	leas Yates Unit 5-2
• Clower	Contractor: J. C.								
	Cable Tool Drilled		• • • • • • • •						
to P & A.									
ance plus 3/0 sx perf @ 1500. Pulled filled with cmf	thru a p						· .		reduction Company
50' w/50	, FT	Rivers	· <u> </u>		21-75)	(P & A 2-21-		Lea County, New Mexico	
	<u>Oven Hole</u> : 3373-3385	Yatee	3266	3.388	9-30-53	8-2ú-53	Oil Production P & A	660 FNL & 650 FWL, Unit D Sec. 14, T20S, R33E, NMPM	eas Yates Unit 5-1
d Well Construction	Racord of Completion: Perf(s) and Well	Zone(s)	Depth D PBTD	TD	te Completed	Date Spudded	Туре	Location, Unit Ltr. Sec., Twp., Range	911 Name, Number Murator
TYU 13-2		Σ	12 MILE RADIUS OF PROPOSED WIW	ADIUS OF P	N A <sup>1</sup> 5 MILE R	WELLS WITHIN A			

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€C61E ∂ 803							1 1	
ୢୖୄ୶	4							reduction Company
				5-3-72)	(Converted 5-3-72)	Injection Well	e, nypm	
	Vates	1	3342	8-10-53	6-25-53	Water	FNL & 660 FEL, Unit A	fras Vates Unit 12-1
Contractor: Cactus Drlg Co.								
Rotary Tool Drilled								
50 sxs 2 3/8" tbg @ 3106.								
7" @ 3085 w/420 sx 5½" liner w/top @ 2943 &		~~~~						
" @ 1420 cemer sx (circulate	KIVETS							Perutor: Anadarko Production Company
	Seven							
Perfs: 3137-3250	Yates	3265	3385	9-15-74	7-9-74	Active Oil Producer	990 FNL & 990 FWL, Unit D Active O Sec. 14, T20S, R33E, NMPM Producer	Teas Yates Unit 5-5
Contractor: J. C. Clower								
Cable Tool Drilled	· · ·	,				waiting on recompletion		
		<b></b>				Currently		Production Company
set @ 3370, cemen	Rivers			8 re-entered	(P & A 12-58	entered 11-16- 81		dperator: Anadarko
i	Yates	3389	3416	1-22-54	12-24-53	)il Producer S & A then re-	2310 FNL & 990 FWL, Unit E 011 Sec. 14, T20S, R33E, NMPM P &	etus Tates Unit 5-4
Record of Completion: Perf(s) and Well Construction	Zone(a)	Depth ) PBTD	TD De	Completed	Spudded	- J he	-, Ra	ator
			5	•	7.	Tvne	Logation, Unit Ltr.	all Hume, Number

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sx cement.	· · ·							
surface. Plugged with 1665	: \							
sx. cmt. circ								
		-						
1-55 BAF	:			Recompleted 9-24-73	Recomplet			
-								
with 300 sx. cmt. ci				9-6-73	Respud 9-			
Casing: 8 5/8" 28# H-40 set @ 1575				•		TTAM AT ddnc		
:	Rivers	Surface		96-01-6			AC, IECO, ACCI, NUERI	M
Open Hole: Plugged back to Surface	Seven		3700	Ρ&Α	3-15-56	T & A	A LEY OUTE L	THE THES OUTE THET
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			-				· · · · ·	-
Contractor: Cactus Drlg. Co.	1	-						-
Cable Tool Drilled								
continous plug.			•		,			
W/165 sx. Plugged from ton		-						
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1.41								
tions cire 56					 1			
thru perf @ 2600. Plugging								
sx around shoe and 450 sx	-	14						
Casirg: 512" 14# @ 3275 cmtd w/50					( /		•	ភ '
		Swrface		ed CO MTM	-	THIS CETON WEIT		mernitor: Anadarko
surface.		back to			<u> </u>	Thiertion Wol		
Open Hole: Plugged back to	Yates	·	3507	55-01-1	56-0-77	E R A	11 T20S R33F NAPA	
			 	•		n .		Geas Yates Unit 13-1
Pei	Zone(9)	TD PBTD		d Completed	Spudded		Sec., Twp., Range	
Record of Completion.		Depth	•	Date		Туре	lon, U	

54" 15.5# K-55 ST & C Liner set @ 3830 w/top @ 2690'. Cmt w/150 sx circ 20 sx: Perfs: 3660-63, 3674-81, 3696- 3700, 3708-11, 3724-27, 3746-49, 3758-62. Rotary Tool Drilled Contractor: Warton Drlg. Co.							
547" 15.5# K-55 ST & Liner set @ 3830 w/ 2690'. Cmt w/150 sx 20 sx: 3660-63, 3674-81, 36 3700, 3708-11, 3724- 3746-49, 3758-62. Tool Drilled ctor: Warton Drlg. Co				 `			
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5½" 15.5# K-55 ST & Liner set @ 3830 w// 2690'. Cmt w/150 sx 20 sx.	•						
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15.5# K-55 ST &			-				
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ce JIUU. Cmted	-		wa *				Fonduction Company
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w/825 sx, circ 200	Keer						
rs J-55 set @ 1260'. Cr	RIVETS				•	Ж.	
Casing: 10 3/4" 40	Seven	DERE	18-15-0	J-J L-0 I		ec. 14, T20S, R33E,	
		>	0	10-11-01	Active	1330 FNL & 1330 FWL. 11nit	Teas Yates Unit WSW #1
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Rotary Tool Drilled							
SXS DCF1/M CTOFT &	-				-	, <b>1</b>	-
97/M . 0006 a 0							•
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Castrig: 20 (e 1400 W/1900 SXS	-		х 12				
					producing)		
9430-34, 9442-50, 9454-57,			(FI)	î			
9408-14, 9416-18, 9422-24,			70-15-21	<u>D</u>	shut-in Rone		
13532-543, Bone	Morrow		12-12-62	•	(morrent]v		Derator: Arco
ngs, 13423-429, 13526-528	Spri		(BS)		***	IT. IZUS, AJJE, MEREN	
e Perfs: Morrow 13294-302, 13309-317	13800 Bone	14948	12-6-62	4-30-62	Unit C Gas Producer	& 1980 FWL,	Allaffey-Fed. ARC #1
Zone(s) Perf(s) and Well Construction	22 CIER						
Record		Depth	Date	Shiidde	Туре	Sec., Twp., Range	erator
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## TEAS YATES UNIT 13-1 P&A 10-8-81





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## , Well Nome & Number:

Perfs: None

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

phise

BPL

CASE NO. 7677 Order No. R-7084

APPLICATION OF ANADARKO PRODUCTION COMPANY FOR A WATERFLOOD EXPANSION, LEA COUNTY, NEW MEXICO.

MIP

## ORDER OF THE DIVISION

M.S.

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on September 15, 1982, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this \_\_\_\_\_ day of September, 1982, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

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FINDS:

(1) That due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Anadarko Production Company, seeks expand its Teas lates
authority to institute a materflood project on its Teas Yates Unit, Teas Yates - Seven Rivers flew County, New Mexico, Lease Prot, by converting two wells located in Unit F of mMPM, towater injection
Sections 13 and 14, Township 27 South, Range 33 East, and A drilling three new injection wells at unorthodox locations in
Units M of Section 11 and Unit L of Section 13, Township 20
South, Range 34 East, NMPM, Lea County, New Mexico.

(3) That the wells in the project area are in an advanced state of depletion and should properly be classified as "stripper" wells.

(4) That the proposed waterflood project should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.

(5) That the operator should take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface from injection, production, or plugged and abandoned wells, and provided further, that prior to injection of coaltr into proposed injection with the 2MI and SNH, applicant Sheell take such steps as much (6) That the injection wells or injection pressure at the wellhead to no more than <u>1150</u> psi, but the Division Director should have authority to increase said pressure limitation, should circumstances warrant.

> be deemed necessary by the Supervisor of the Districk Office of the Division to ensure the of the Caring comparting and plugging Tean yaces Unit tobe to, 8"" (The old Tun Federal (1-13) located in this Eg Section 13 Tennship 20 Santh, Runge 13 Erst NMPM.

That the subject application should be approved and (7) the project should be governed by the provisions of Rules 702 through 708 of the Division Rules and Regulations,

1T IS THEREFORE ORDERED:

1

(1) That the applicant, Anadarko Production Company, is its Teas Yates hereby authorized to expand a Waterflood project on its Teas Yates Lease, Teas Yates - Seven Rivers Lea County, New Mexico, Yates Lease, Teas Yates - Seven Rivers Lea County, New Mexico, formation through the water into the Uat2 following described wells: ₩¥ Oldowells to be converted. theit well 5-3, 1980 FNL and 1650 FWL, Section 14; Unit Tout will Whit With No. 27, 1980'ENL and 1980' FWL, Section 13; 5 Both in township 20 South, Range 33 East, NMPM. 2 New wetter ion wells at unorthodox locations Unit Well No. 8-4 2250 FSL and 975'FWL, Section 13; Unit Well Nor +3-2, 1P' FSL and 660'FWL, Section 11; Finthe in Taiming - C. 11 D' WL, Section 11; Unit to at well No Poth in Township 20 South, Range 33 East, NAIPM. 8 2 - Unit Well No. 1-2, 1980'FNL and 10'FWL, Section 18, Tourship 20 South, Range 34 East, NMPM 13

> (3) That injection into each of said wells shall be through internally coated tubing, set in a packer which shall be located as near as practicable to the uppermost perforation; that the casing-tubing annulus of each injection well shall be loaded with an inert fluid and equipped with an approved pressure gauge or attention-attracting leak detection device.

(4) That the operator shall immediately notify the supervisor of the Division's Hobbs district office of the failure of the tubing or packer in any of said injection wells, the leakage of water or oil from around any producing well, or the leakage of water or oil from any plugged and abandoned well (2) That prior to injection of water in Unit with 24 and 8+4 as described above, applicant shall take such slips and action as may be damed necessary by the Supervisor of the Hobbas District Office of the Division to ensure the integrity of the ceaning and comenting, and write as the subsequent plugging of this write For soil, breach in Ulinh E of Section 13, Township 20 South, Pange 23 East, NMPM. within the project area and shall take such timely steps as may be necessary or required to correct such failure or leakage.

(4) That the injection wells herein authorized and/or the injection pressurization system shall be so equipped as to limit injection pressure at the wellhead to no more than  $\frac{1150}{20}$  psi, provided however, the Division Director may authorize a higher surface injection pressure upon satisfactory showing that such pressure will not result in fracturing of the confining strata.

(b) That the subject waterflood project is hereby designated the \_\_\_\_\_\_- Waterflood Project and shall be governed by the provisions of Rules 701 through 708 of the Division Rules and Regulations.

(7)(MAGES That monthly progress reports of the waterflood project herein authorized shall be submitted to the Division in accordance with Rules 706 and 1115 of the Division Rules and Regulations.

(1) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

JOE D. RAMEY,

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